D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health
and Environmental Control

UNDERGROUND STORAGE TANK MANAGEMENT DIVISION
BUREAU OF LAND AND WASTE MANAGEMENT

2600 Bull Street, Columbia, South Carolina 29201
Telephone (803) 896-6241

MEMORANDUM

DATE: October 11, 2012

To: Eric Cathcart, Manager
Regulatory Assistance Section

From: Minda Hornosky, Hydrogeologist MHN
Assessment Section

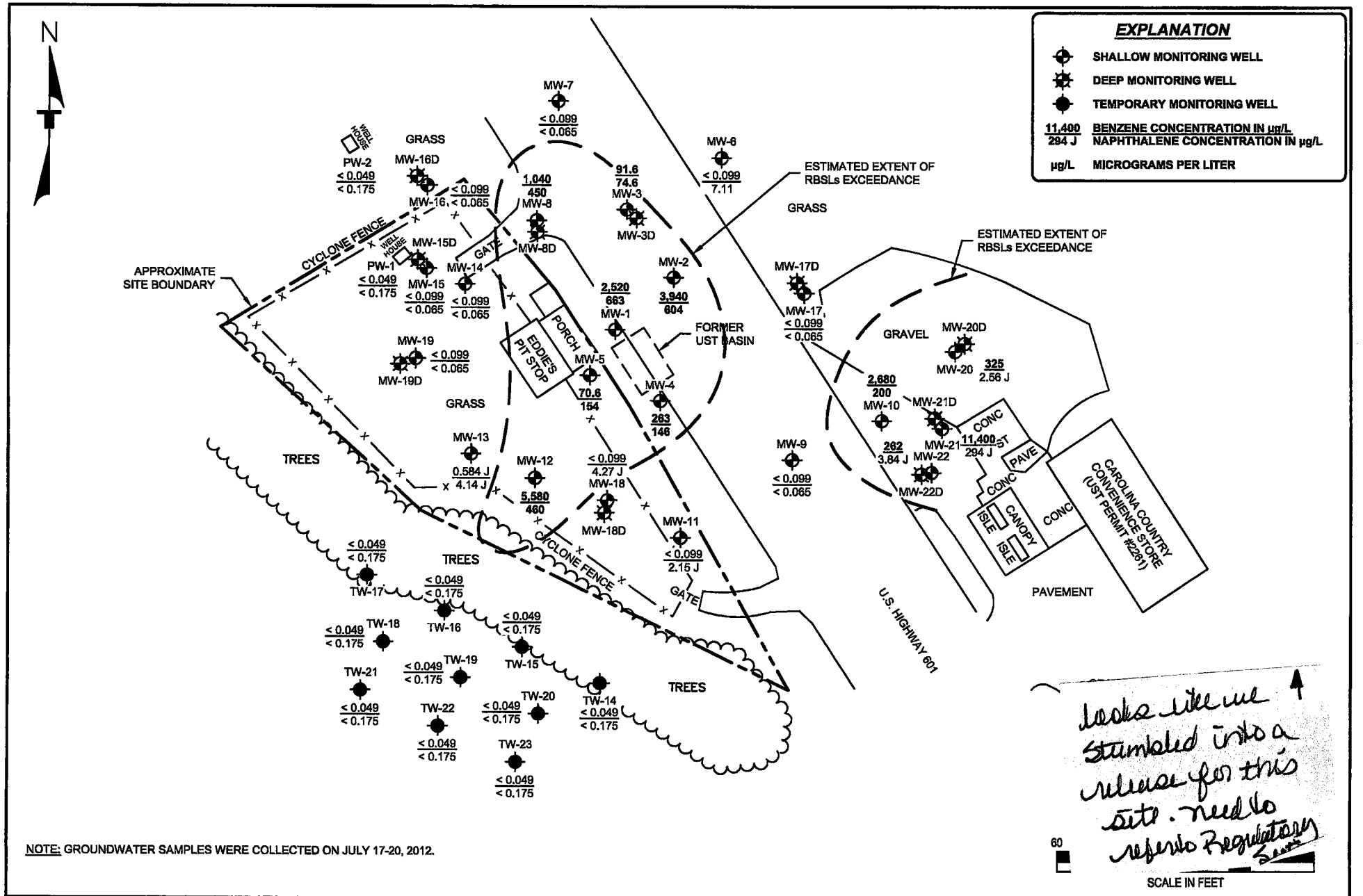
Thru: Chris Doll, P. G., Manager CD
Assessment Section

SUBJECT: Suspected New UST Release
Carolina Country Convenience Store
UST Permit #02261
Chesterfield County

On August 27, 2011, and July 11, 2012, Terracon installed monitoring wells at the referenced facility. The monitoring wells were installed at this site during a Tier II Assessment for an adjacent facility. The groundwater elevations indicate that this site is up-gradient and groundwater samples from these wells were found to have concentrations of chemicals of concern that exceeded RBSLs and were greater than concentrations documented on site at Eddie's Pit Stop (UST Permit #18871), the adjacent facility.

The subject facility has a 10,000-gallon and two 6,000-gallon gasoline USTs still in operation. A compliance inspection is requested to determine if a new release has occurred. A site map showing the locations of these wells is provided.

enc: site maps
boring logs
19036 forms
table of groundwater elevations
table of chemical analysis



NOTE: GROUNDWATER SAMPLES WERE COLLECTED ON JULY 17-20, 2012.

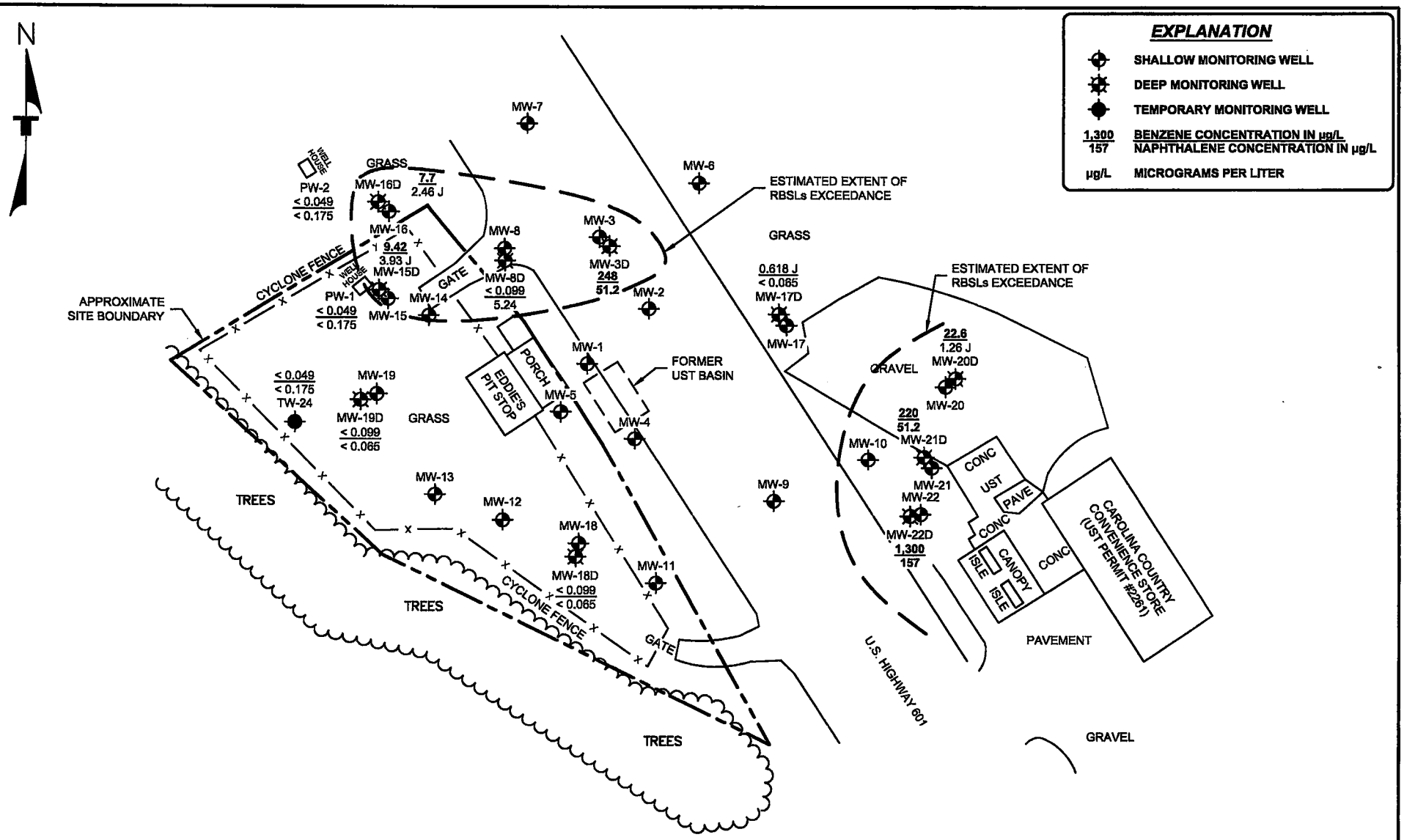
Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH
Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	AUGUST 2012

Terracon
Consulting Engineers and Scientists
521 CLEMSON ROAD COLUMBIA, SC 29229
PH. (803) 741-9000 FAX. (803) 741-9300

BENZENE / NAPHTHALENE CONCENTRATION MAP OF THE UPPER PORTION OF THE SHALLOW AQUIFER

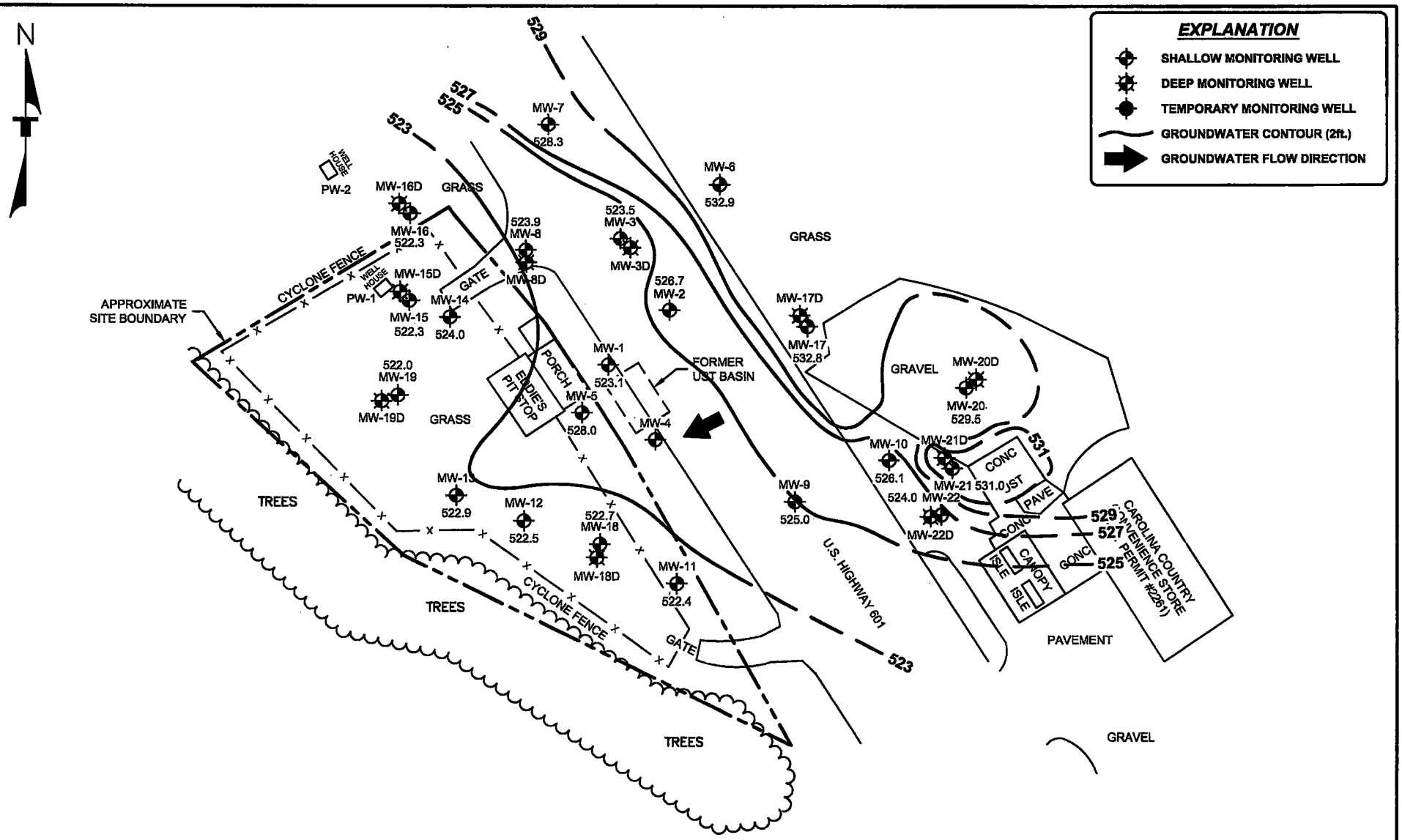
EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 10



NOTE:
1) GROUNDWATER SAMPLES WERE COLLECTED ON JULY 17-20, 2012.
2) CONCENTRATIONS DETECTED AT MONITORING WELL MW-8D WERE NOT INCLUDED IN CONTOURING.

Project Mngr: RWN	Project No. 73098106	Terracon Consulting Engineers and Scientists	BENZENE / NAPHTHALENE CONCENTRATION MAP OF THE LOWER PORTION OF THE SHALLOW AQUIFER
Drawn By: PTK	Scale: AS SHOWN	521 CLEMSON ROAD COLUMBIA, SC 29229	EDDIE'S PIT STOP - SCDOT ROUTE 2, US HIGHWAY 601 NORTH PAGELAND, SOUTH CAROLINA UST PERMIT #18871
Checked By: RWN	File No. 73098106	PH. (803) 741-9000 FAX. (803) 741-9900	Fig No. 11
Approved By: PMH	Date: AUGUST 2012		



NOTE:
1) GROUNDWATER ELEVATIONS WERE RECORDED ON JULY 18, 2012.
2) MONITORING WELLS MW-1, MW-14, AND MW-22 WERE SCREENED WITHIN THE LOWER PORTION OF THE SHALLOW AQUIFER. THEREFORE THE GROUNDWATER ELEVATIONS WERE NOT USED DURING CONTOURING.
3) GROUNDWATER ELEVATIONS AT MONITORING WELLS MW-15 AND MW-16 APPEAR ANOMALOUS AND WERE NOT USED IN CONTOURING.

60 0 10 20 30 60
SCALE IN FEET

Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH
Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	AUGUST 2012

Terracon
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521 CLEMSON ROAD COLUMBIA, SC 29229
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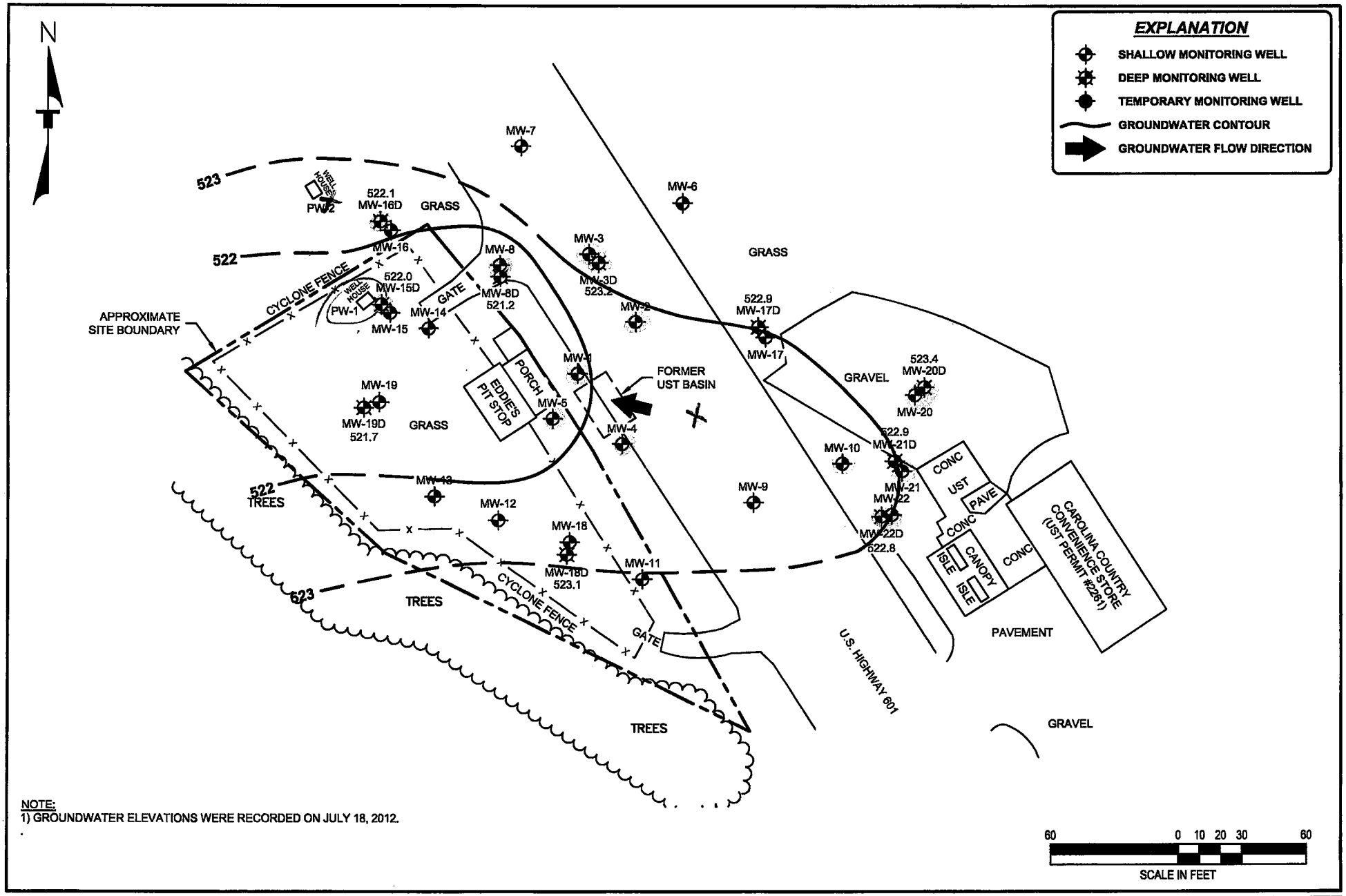
POTENTIOMETRIC SURFACE MAP OF THE UPPER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 8



NOTE:
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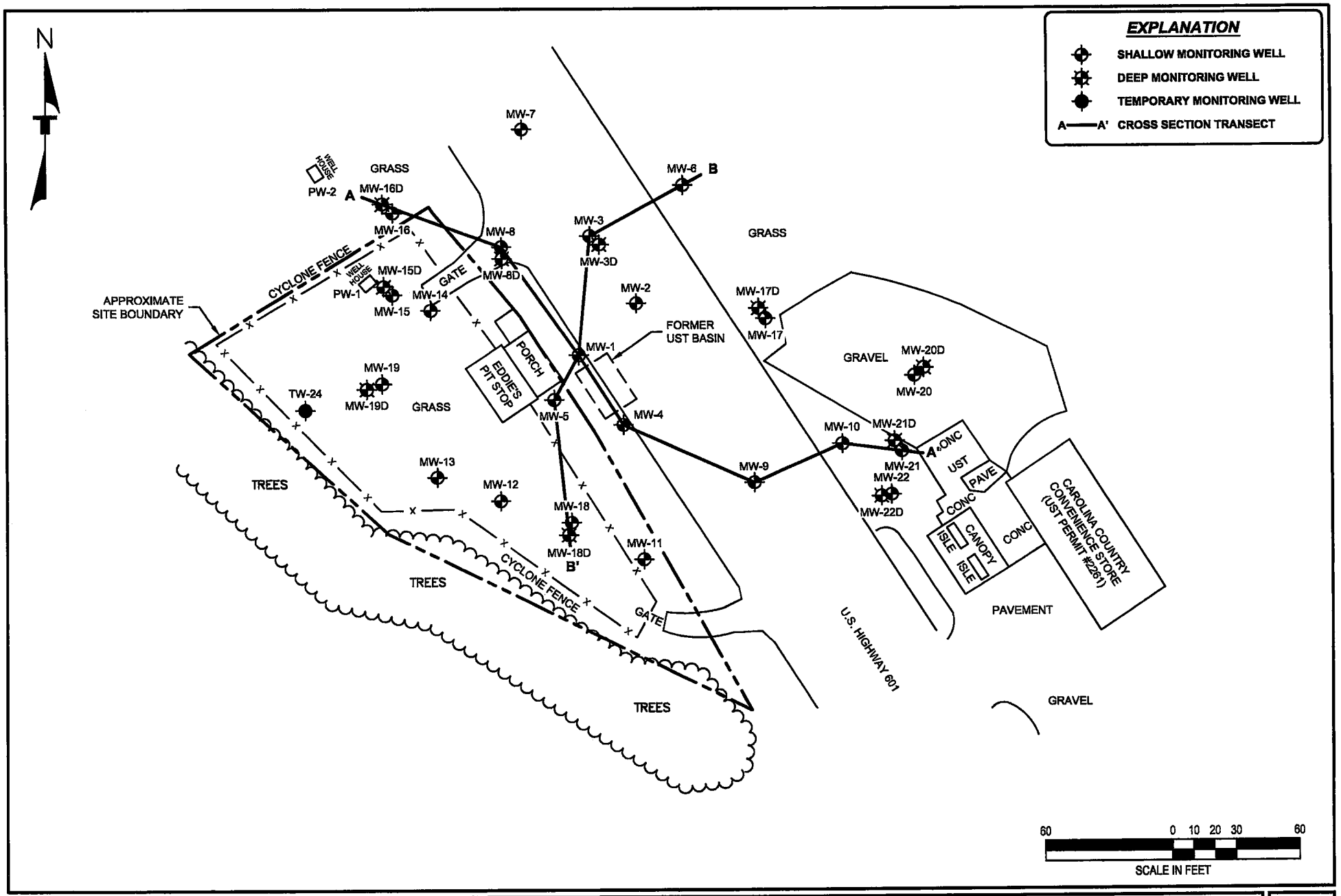
Checked By: RWN	File No. 73098106	PH. (803) 741-9000 FAX. (803) 741-9900	Fig No. 9
Approved By: PMH	Date: AUGUST 2012		



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Project No.	73098106
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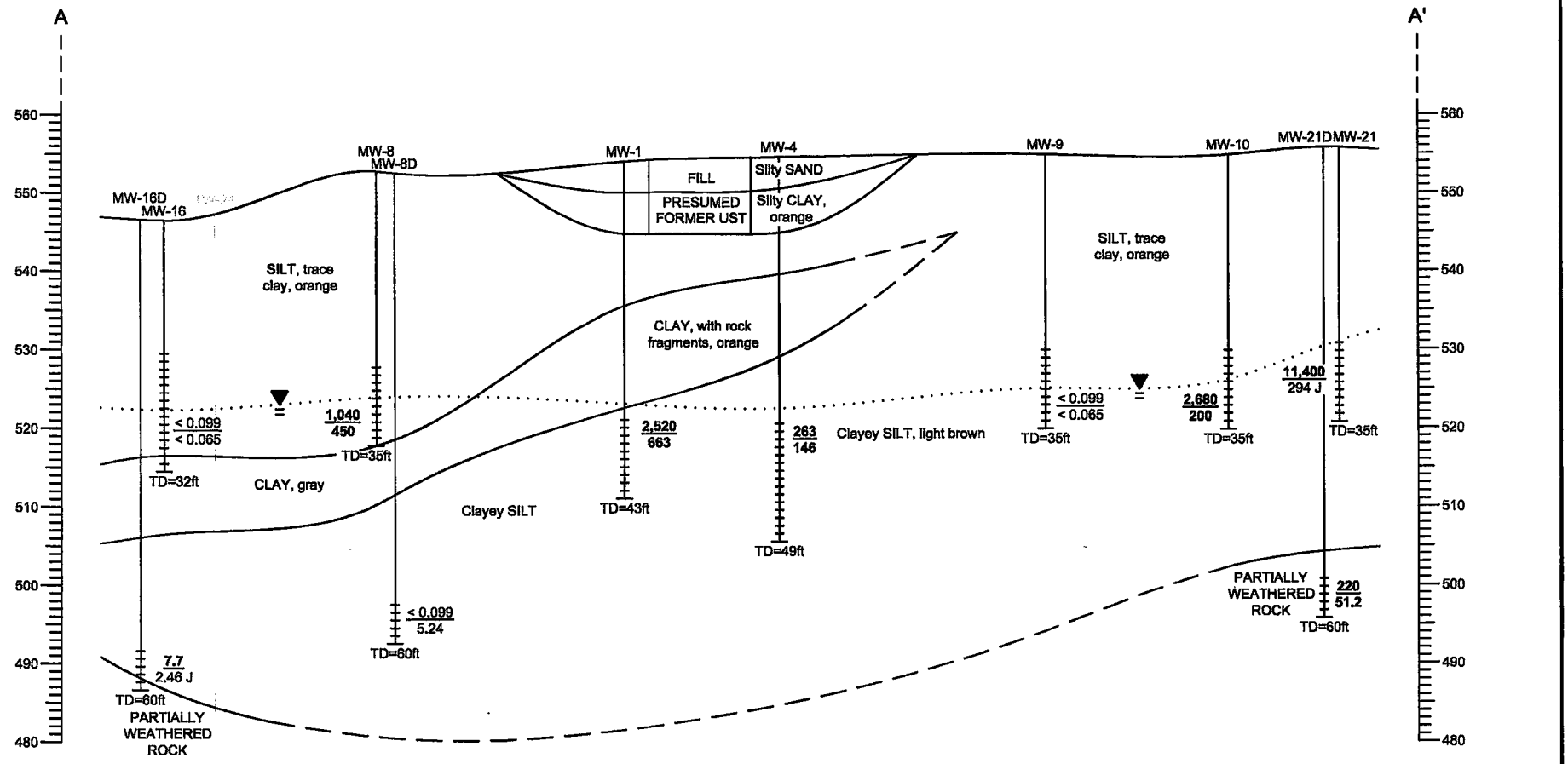
File No.	73098106
Date:	AUGUST 2012

Terracon
Consulting Engineers and Scientists
621 CLEMSON ROAD COLUMBIA, SC 29229
PH. (803) 741-9000 FAX. (803) 741-9900

SITE MAP WITH CROSS SECTION TRANSECTS

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 5



EXPLANATION

MW-1 (MONITORING WELL)

WATER LEVEL

SCREEN INTERVAL

TD = TOTAL DEPTH (in feet)

2,680 / 200 — BENZENE CONCENTRATION / NAPHTHALENE CONCENTRATION

RBSLs RISK-BASED SCREENING LEVELS

CONCENTRATIONS IN BOLD EXCEED RBSLs

NOTE: GROUND WATER SAMPLES COLLECTED ON JULY 17-20, 2012.

40 0 10 20 40
HORIZONTAL SCALE IN FEET

20 0 5 10 20
VERTICAL SCALE IN FEET

Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
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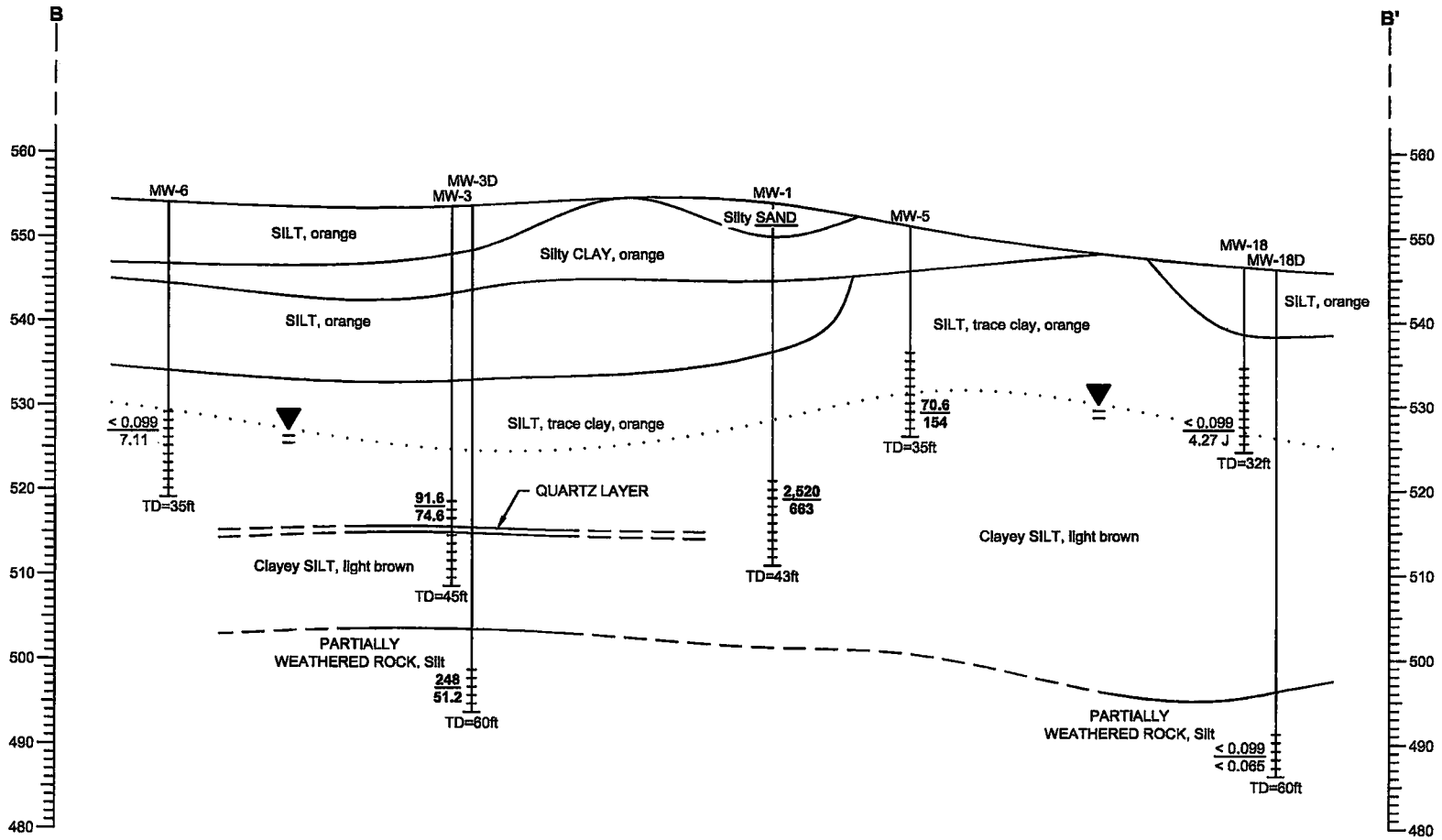
GEOLOGIC CROSS SECTION A-A'

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 6



EXPLANATION

MW-1 (MONITORING WELL)

WATER LEVEL

SCREEN INTERVAL

TD = TOTAL DEPTH (in feet)

2,740 BENZENE CONCENTRATION
1,122 NAPHTHALENE CONCENTRATION

RBSLs RISK-BASED SCREENING LEVELS

CONCENTRATIONS IN BOLD EXCEED RBSLs

NOTE: GROUND WATER SAMPLES COLLECTED ON JULY 17-20, 2012.

30 0 10 20 30
HORIZONTAL SCALE IN FEET

20 0 5 10 20
VERTICAL SCALE IN FEET

Project Mngr:	RWN
Drawn By:	PTK
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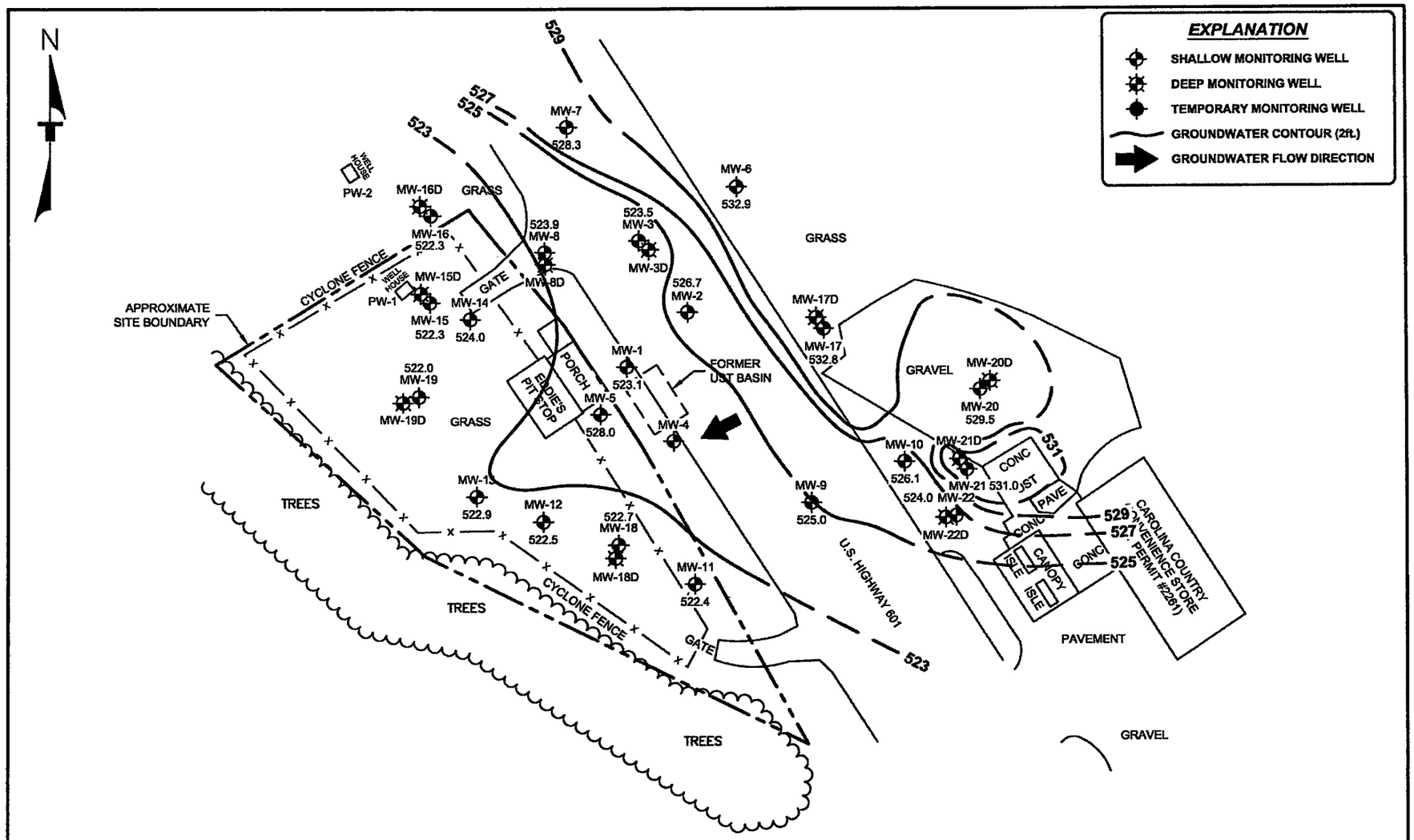
GEOLOGIC CROSS SECTION B-B'

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 7



NOTE:
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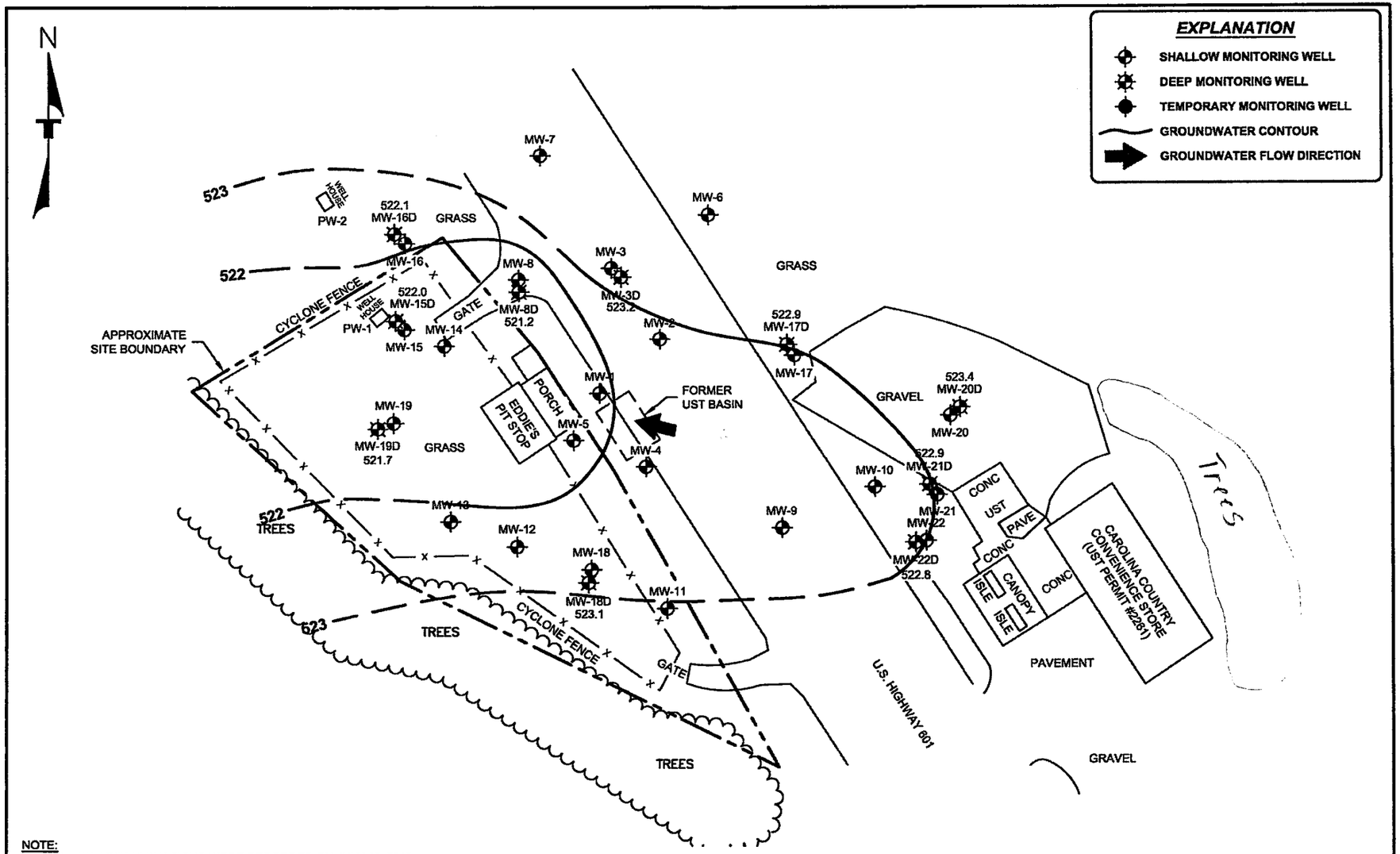
2) MONITORING WELLS MW-1, MW-14, AND MW-22 WERE SCREENED WITHIN THE LOWER PORTION OF THE SHALLOW AQUIFER. THEREFORE THE GROUNDWATER ELEVATIONS WERE NOT USED DURING CONTOURING.
3) GROUNDWATER ELEVATIONS AT MONITORING WELLS MW-15 AND MW-16 APPEAR ANOMALOUS AND WERE NOT USED IN CONTOURING.

60 0 10 20 30 60
SCALE IN FEET

Project Mngr: RWN	Project No. 73098106	Terracon Consulting Engineers and Scientists	POTENTIOMETRIC SURFACE MAP OF THE UPPER PORTION OF THE SHALLOW AQUIFER
Drawn By: PTK	Scale: AS SHOWN	521 CLEMSON ROAD COLUMBIA, SC 29229	EDDIE'S PIT STOP - SCDOT ROUTE 2, US HIGHWAY 601 NORTH PAGELAND, SOUTH CAROLINA UST PERMIT #18871
Checked By: RWN	File No. 73098106	PH. (803) 741-9000 FAX. (803) 741-9900	Fig No. 8
Approved By: PMH	Date: AUGUST 2012		



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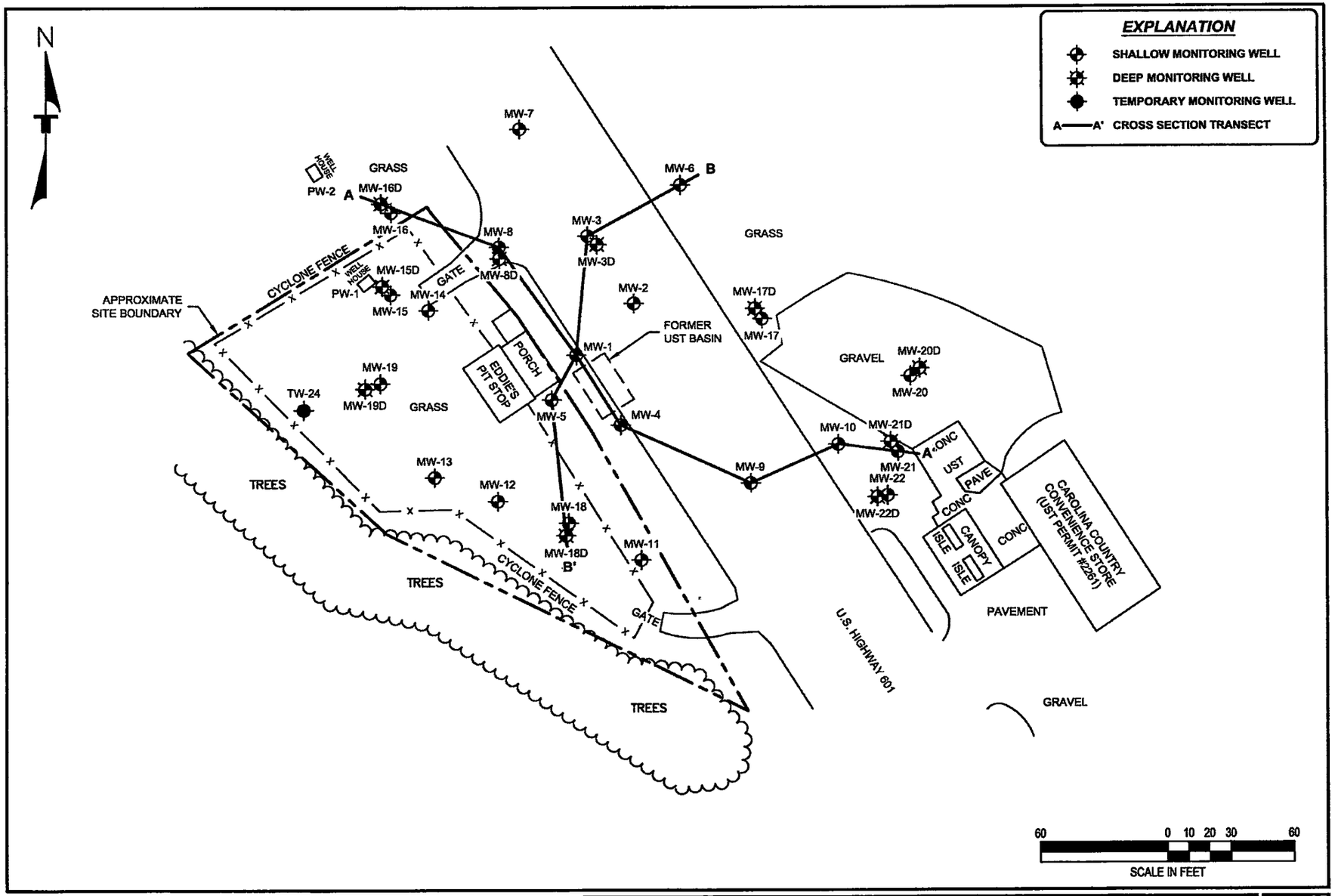

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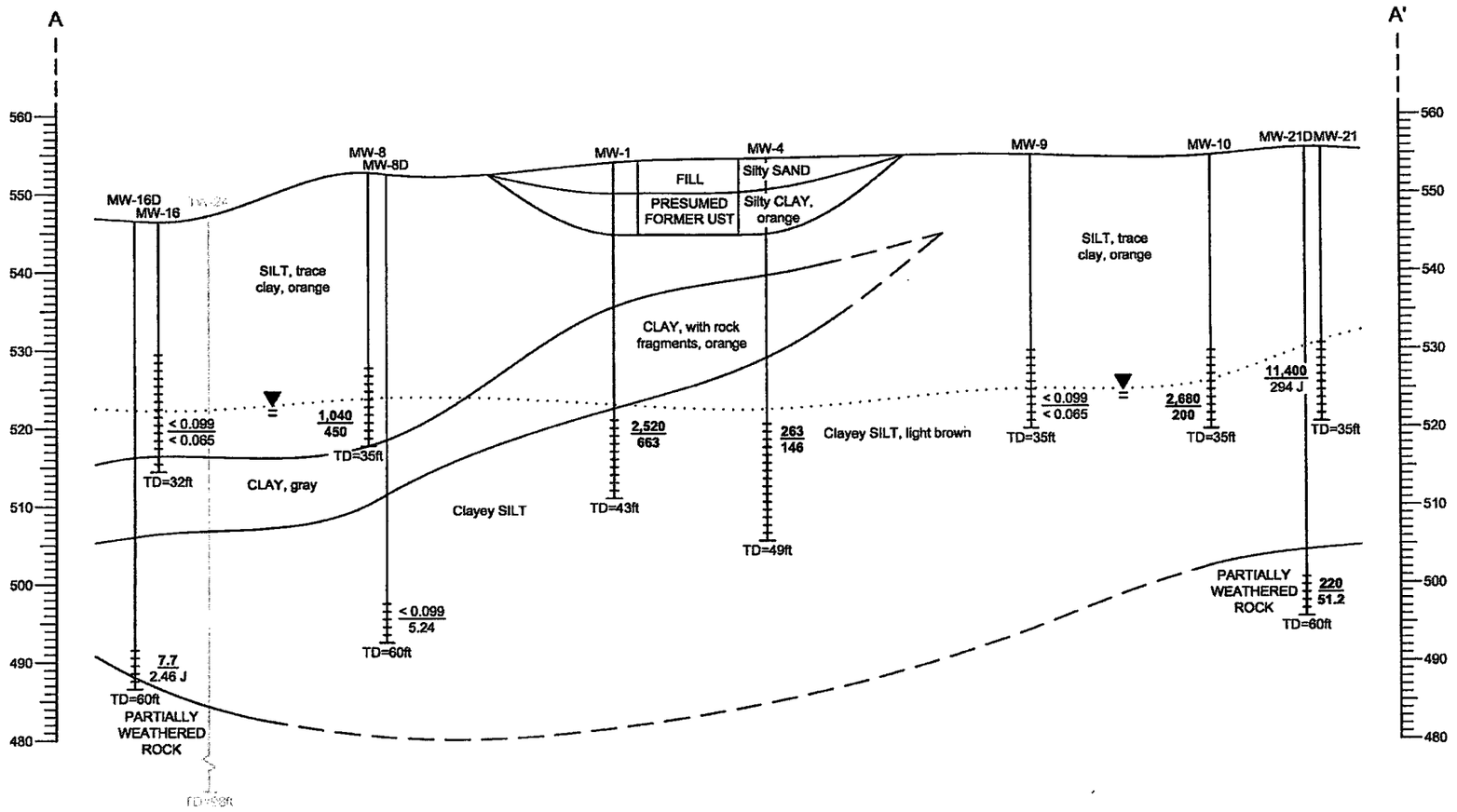
Drawn By: PTK	Scale: AS SHOWN	521 CLEMSON ROAD COLUMBIA, SC 29229	EDDIE'S PIT STOP - SCDOT ROUTE 2, US HIGHWAY 601 NORTH PAGELAND, SOUTH CAROLINA UST PERMIT #18871
Checked By: RWN	File No. 73098106	PH. (803) 741-9000 FAX. (803) 741-9900	Fig No. 5
Approved By: PMH	Date: AUGUST 2012		



EXPLANATION

MW-1 (MONITORING WELL)

WATER LEVEL

SCREEN INTERVAL

TD = TOTAL DEPTH (in feet)

2,680 / 200 BENZENE CONCENTRATION / NAPHTHALENE CONCENTRATION

RBSLs RISK-BASED SCREENING LEVELS

CONCENTRATIONS IN BOLD EXCEED RBSLs

NOTE: GROUND WATER SAMPLES COLLECTED ON JULY 17-20, 2012.

40 0 10 20 40
HORIZONTAL SCALE IN FEET

20 0 5 10 20
VERTICAL SCALE IN FEET

Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
Scale:	AS SHOWN
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Terracon
Consulting Engineers and Scientists
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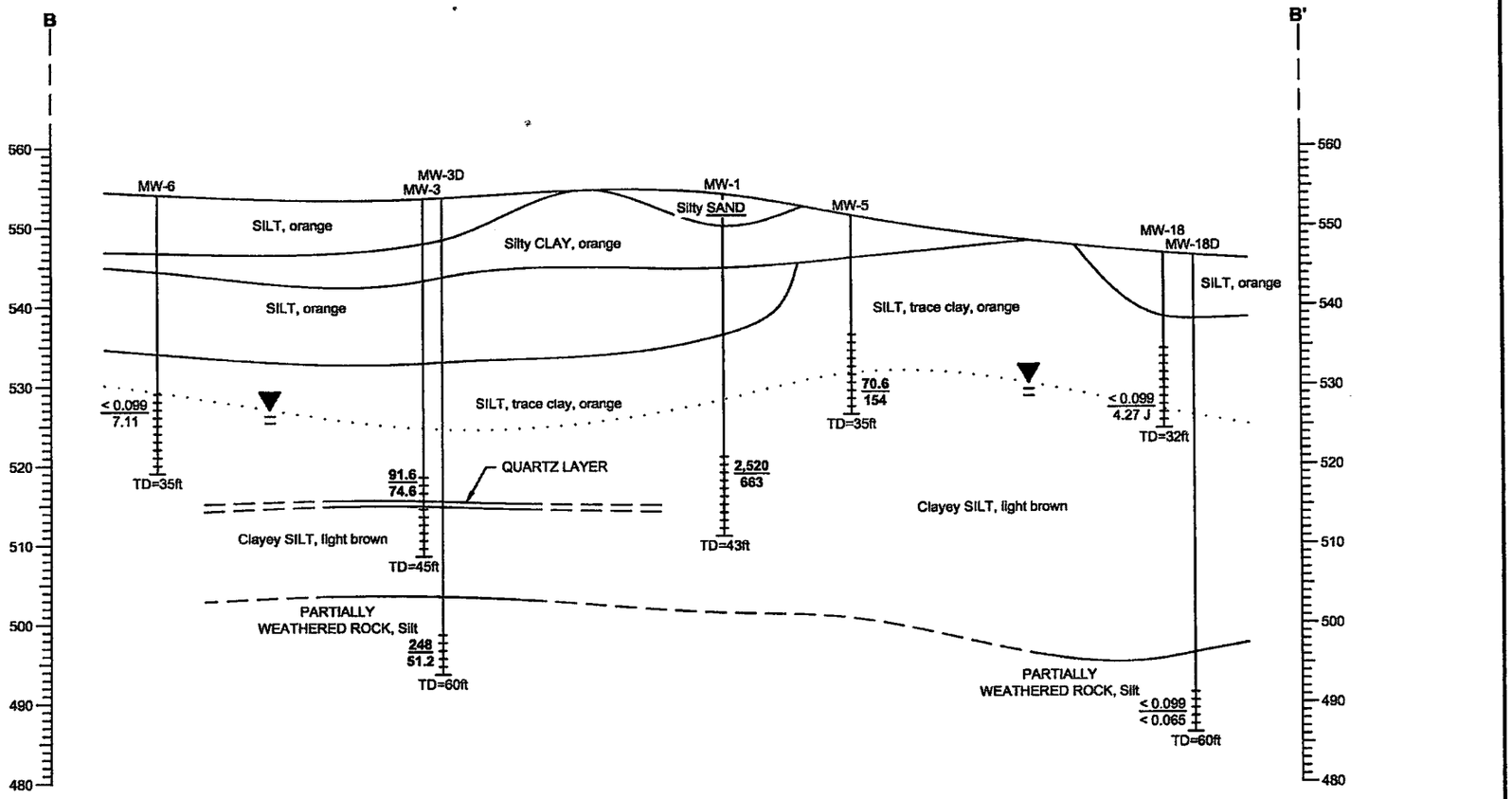
PH. (803) 741-9000 FAX. (803) 741-9900

GEOLOGIC CROSS SECTION A-A'

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 6



EXPLANATION

MW-1 (MONITORING WELL)

WATER LEVEL

SCREEN INTERVAL

TD = TOTAL DEPTH (in feet)

2,740 BENZENE CONCENTRATION
1,122 NAPHTHALENE CONCENTRATION

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NOTE: GROUND WATER SAMPLES COLLECTED ON JULY 17-20, 2012.

30 0 10 20 30
HORIZONTAL SCALE IN FEET

20 0 5 10 20
VERTICAL SCALE IN FEET

Project Mngr: RWN	Project No. 73098106	Terracon Consulting Engineers and Scientists	GEOLOGIC CROSS SECTION B-B'
Drawn By: PTK	Scale: AS SHOWN	521 CLEMSON ROAD COLUMBIA, SC 29229	EDDIE'S PIT STOP - SCDOT ROUTE 2, US HIGHWAY 601 NORTH PAGELAND, SOUTH CAROLINA UST PERMIT #18871
Checked By: RWN	File No. 73098106	PH. (803) 741-9000 FAX. (803) 741-9900	Fig No. 7
Approved By: PMH	Date: AUGUST 2012		

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: TW-3 / MW-10
Client: SCDOT		*Well Construction Data*	
Date Started: 8/27/11	Date Completed: 8/27/11	Screen: 2" (0.010) Slotted PVC	From: 25 - To: 35
Logged By: W. Walker	Coordinates:	Pack: #2 Filter Sand	From: 23 - To: 35
Drilling Co.: Terracon	Driller: C. Fredrychowsi	Seal: Bentonite Pellets	From: 21 - To: 23
Method: 4"/2.25 HSA/4.25 HSA	Equipment: CME-550	Grout: Portland Cement Type I	From: 0 - To: 21
Boring Depth (ft.): 35.0	TOC Elevation:	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 8.25	GW Level: ▼ 34.50 Time/Date: 1/6/2012	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blows/ 6 Inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						TOPSOIL		
2						SILT, trace clay, orange, dry.		2
4								4
6								6
8								8
10								10
12								12
14								14
16								16
18						SILT, trace clay, light brown, dry.		18
20								20
22								22
24								24
26								26
28								28
30								30
32								32
34							▼	34
						Boring Terminated at 35 ft.		

7/7/11 - Through direct push, a 1" test well was created dry.
8/27/11 - Re-drilled in order to be completed as a monitoring well
9/8/11 - 1" test well yields 0.60 ft. of water
Due to tight formation, the well was triple drilled, from 4" solid stem augers, to 2.25 HSA, to 4.25 HSA

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 9/23/12

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

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: SC DOT (last) (first)
Address: PO Box 191
City: Columbia State: SC Zip: 29202
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Eddies Pit Stop
Street Address: Route 2 US Highway 601 North
City: Pageland Zip:
Latitude: Longitude:

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

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Asphalt	0.4	0.4
Orange dry silt	34.2	35.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: TW-3/MW-10

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

7. PERMIT NUMBER: 18871

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

9. WELL DEPTH (completed) 35 ft. Date Started: 08-27-11 Date Completed: 08-27-11

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 25 ft. depth
____ in. to ____ ft. depth
Height: Above (Below) Surface 0.3 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☒ No

11. SCREEN:
Type: PVC Diam.: 2
Slot/Gauge: 010 Length: 10
Set Between: 25 ft. and 35 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 23 ft. to 35 ft.
Effective size #2 Uniformity Coefficient ____

16. WELL GROUTED? ☒ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☒ Bentonite/Cement ☐ Other ____
Depth: From 0 ft. to 21 ft.

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

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

19. WELL DRILLER: Craig Fredrychowski CERT. NO.: D-2002
Address: (Print) Level: A B C D (circle one)
1042 Goose Platter Rd Batesburg, SC 29006
Telephone No.: 803-518-4703 Fax No.: 803-741-9900

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: ____ (Well Driller) Date: 08-31-11

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

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: MW-20
Client: SCDOT		***Well Construction Data***	
Date Started: 7/9/12	Date Completed: 7/9/12	Screen: 2" (0.010) Slotted PVC	From: 25 - To: 35
Logged By: W. Walker	Coordinates:	Pack: #2 Filter Sand	From: 23 - To: 35
Drilling Co.: Southern Sonic	Driller: B. Cabit	Seal: Bentonite Pellets	From: 21 - To: 23
Method: Sonic	Equipment: Sonic Rig	Grout: Portland Cement Type I	From: 0 - To: 21
Boring Depth (ft.): 35.0	TOC Elevation:	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 6	GW Level: Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						Clayey SILT, orange, hard, dry.		0
2								2
4						Clayey SILT, grayish purple, hard, laminated, dry.		4
6						SILT, light brown, dry.		6
8								8
10								10
12						SILT, pink, hard, dry.		12
14						SILT, orange and white with black veins, dry.		14
16						SILT, with partially weathered rock, orange with black veins, dry.		16
18								18
20								20
22						SILT, orange, hard, dry.		22
24						SILT, with partially weathered rock, mottled (green, brown, orange) with black veins, hard, dry.		24
26								26
28								28
30								30
32								32
34								34
						Boring Terminated		

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/26/12

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

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: SCDOT (last) (first)
Address: P.O. Box 191
City: Columbia State: SC Zip: 29202-0191
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Liberty Gas
Street Address: Rt. 2 Hwy 601 North
City: Pageland Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Tan silty clay	14	14
Hard clay	10	24
Sand & silt w/clay traces	11	35
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: MW - 20S		

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

7. PERMIT NUMBER: UST #18871

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

9. WELL DEPTH (completed) Date Started: July 9, 2012
35' ft. Date Completed: July 9, 2012

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 25 ft. depth
____ in. to ____ ft. depth
Height: Above / Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 10'
Set Between: 25 ft. and 35 ft.
____ ft. and ____ ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 22 ft. to 35 ft.
Effective size #2 Uniformity Coefficient ____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0 ft. to 20 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☑ 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: Blake Cabit CERT. NO.: 963
Address: (Print) Level: A B C D (circle one)
2078 Alpine Drive, Aiken, SC 29803
Telephone No.: 803.522.3193 Fax No.:

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

Signed: Blake Cabit (Well Driller) Date: July 23, 2012

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

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

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: MW-20D
Client: SCDOT		*Well Construction Data*	
Date Started: 7/11/12	Date Completed: 7/11/12	Screen: 2" (0.010) Slotted PVC	From: 55 - To: 60
Logged By: W. Walker	Coordinates:	Pack: #2 Filter Sand	From: 53 - To: 60
Drilling Co.: Southern Sonic	Driller: B. Cabit	Seal: Bentonite Pellets	From: 51 - To: 53
Method: Sonic	Equipment: Sonic Rig	Grout: Portland Cement Type I	From: 0 - To: 51
Boring Depth (ft.): 60.0	TOC Elevation:	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 6/9	GW Level: Time/Date:	Outer Casing/Stick Up: 6" Threaded PVC Sch 40 to 40 ft.	

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						Clayey SILT, orange, hard, dry.		
6						Clayey SILT, grayish purple, hard, laminated, dry.		
8						SILT, light brown, dry.		
12						SILT, pink, hard, dry.		
14						SILT, orange and white with black veins, dry.		
16						SILT, with partially weathered rock, orange with black veins, dry.		
22						SILT, orange, hard, dry.		
24						SILT, with partially weathered rock, mottled (green, brown, orange) with black veins, hard, dry.		
36						SILT, trace clay, white and gray, hard, dry.		

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/26/12

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP	Project Number: 73098106	Boring/Well: MW-20D
Client: SCDOT		Well Construction Data

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
46								46
48						PARTIALLY WEATHERED ROCK, with silt, gray, dry.		48
50								50
52								52
54								54
56								56
58								58
60						Boring Terminated at 60 ft.		60

LOG OF BORING WELL 73098108.GPJ GAGE_GRP.GDT 7/26/12

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

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: SCDOT ((last) (first)
Address: P.O. Box 191
City: Columbia State: SC Zip: 29202-0191
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Liberty Gas
Street Address: Rt. 2 Hwy 601 North
City: Pageland Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Tan silty clay	16	16
Hard clay	15	31
Sand w/clay	10	41
Silty sandy clay	19	60
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW - 20D

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

7. PERMIT NUMBER: UST #18871

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

9. WELL DEPTH (completed) Date Started: July 11, 2012
60' ft. Date Completed: July 12, 2012

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"/6"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 55 ft. depth
0 in. to 40 ft. depth
Height: Above /Below ✓ Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5'
Set Between: 55 ft. and 60 ft.
____ ft. and ____ ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 52 ft. to 60 ft.
Effective size #2 Uniformity Coefficient ____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0 ft. to 49 ft.

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

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

19. WELL DRILLER: Blake Cabit CERT. NO.: 963
Address: (Print) Level: A B C D (circle one)
2078 Alpine Drive, Aiken, SC 29803
Telephone No.: 803.522.3193 Fax No.:

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

Signed: Blake Cabit (Well Driller) Date: July 23, 2012

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

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

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: MW-21
Client: SCDOT		***Well Construction Data***	
Date Started: 7/10/12	Date Completed: 7/10/12	Screen: 2" (0.010) Slotted PVC	From: 25 - To: 35
Logged By: W. Walker	Coordinates:	Pack: #2 Filter Sand	From: 23 - To: 35
Drilling Co.: Southern Sonic	Driller: B. Cabit	Seal: Bentonite Pellets	From: 21 - To: 23
Method: Sonic	Equipment: Sonic Rig	Grout: Portland Cement Type I	From: 0 - To: 21
Boring Depth (ft.): 35.0	TOC Elevation:	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 6	GW Level: Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						ASPHALT		
2						Clayey SILT, orange, hard, dry.		2
4								4
6						SILT, light brown, hard, dry.		6
8								8
10						SILT, pink, hard, dry.		10
12								12
14						SILT, trace partially weathered rock, orange and white with black veins, dry.		14
16								16
18								18
20								20
22						SILT, trace partially weathered rock, orange with black veins, dry.		22
24								24
26								26
28								28
30								30
32								32
34								34
						Boring Terminated at 35 ft.		

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/23/12

Terracon
621 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9800

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: SCDOT (last) (first)
Address: P.O. Box 191
City: Columbia State: SC Zip: 29202-0191
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Liberty Gas
Street Address: Rt. 2 Hwy 601 North
City: Pageland Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Tan silty clay	14	14
Hard clay	10	24
Sand & silt w/clay traces	11	35
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-21S

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

7. PERMIT NUMBER: UST #18871

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

9. WELL DEPTH (completed) Date Started: July 10, 2012
35' ft. Date Completed: July 10, 2012

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 ft. to 25 ft. depth
ft. to ft. depth
Height Above /Below ▼
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 010 Length: 10'
Set Between: 25 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 Land Surface.
ft. after hrs. Pumping G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield:

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 22 ft. to 35 ft.
Effective size #2 Uniformity Coefficient

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

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☑ 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: Blake Cabit CERT. NO.: 963
Address: (Print) Level: A B C D (circle one)
2078 Alpine Drive, Aiken, SC 29803
Telephone No.: 803.522.3193 Fax No.:

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

Signed: Blake Cabit Date: July 23, 2012
Well Driller

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

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

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: MW-21D
Client: SCDOT		*Well Construction Data*	
Date Started: 7/10/12	Date Completed: 7/11/12	Screen: 2" (0.010) Slotted PVC	From: 55 - To: 60
Logged By: W. Walker	Coordinates:	Pack: #2 Filter Sand	From: 53 - To: 60
Drilling Co.: Southern Sonic	Driller: B. Cabit	Seal: Bentonite Pellets	From: 51 - To: 53
Method: Sonic	Equipment: Sonic Rig	Grout: Portland Cement Type I	From: 0 - To: 51
Boring Depth (ft.): 60.0	TOC Elevation:	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 6/9	GW Level: Time/Date:	Outer Casing/Stick Up: 6" Threaded PVC Sch 40 to 40 ft.	

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						ASHPALT		0
2						Clayey SILT, orange, hard, dry.		2
4								4
6						SILT, light brown, hard, dry.		6
8								8
10						SILT, pink, hard, dry.		10
12								12
14						SILT, trace partially weathered rock, orange and white with black veins, dry.		14
16								16
18								18
20								20
22						SILT, trace partially weathered rock, orange with black veins, dry.		22
24								24
26								26
28								28
30								30
32								32
34								34
36						SILT, trace clay, white and gray, hard, dry.		36
38								38
40								40
42								42
44								44

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/26/12

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP	Project Number: 73098106	Boring/Well: MW-21D
Client: SCDOT		Well Construction Data

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
46								46
48								48
50						PARTIALLY WEATHERED ROCK with silt, gray, dry.		50
52								52
54								54
56								56
58								58
60						Boring Terminated at 60 ft.		60

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/29/12

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

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: SCDOT (last) (first)
Address: P.O. Box 191
City: Columbia State: SC Zip: 29202-0191
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Liberty Gas
Street Address: Rt. 2 Hwy 601 North
City: Pageland Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Tan silty clay	16	16
Hard clay	15	31
Sand w/clay	10	41
Silty sandy clay	19	60
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW - 2D

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

7. PERMIT NUMBER: UST #18871

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

9. WELL DEPTH (completed) Date Started: July 10, 2012
60' ft. Date Completed: July 11, 2012

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"/6"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 55 ft. depth
0 in. to 40 ft. depth
Height: Above /Below
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5'
Set Between: 55 ft. and 60 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 52 ft. to 60 ft.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 49 ft.

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

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

19. WELL DRILLER: Blake Cabit CERT. NO.: 963
Address: (Print) Level: A B C D (circle one)
2078 Alpine Drive, Aiken, SC 29803
Telephone No.: 803.644.3193 Fax No.:

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

Signed: Blake Cabit (Well Driller) Date: July 23, 2012

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

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

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: MW-22
Client: SCDOT		***Well Construction Data***	
Date Started: 7/11/12	Date Completed: 7/11/12	Screen: 2" (0.010) Slotted PVC	From: 25 - To: 35
Logged By: W. Walker	Coordinates:	Pack: #2 Filter Sand	From: 23 - To: 35
Drilling Co.: Southern Sonic	Driller: B. Cabit	Seal: Bentonite Pellets	From: 21 - To: 23
Method: Sonic	Equipment: Sonic Rig	Grout: Portland Cement Type I	From: 0 - To: 21
Boring Depth (ft.): 35.0	TOC Elevation:	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 6	GW Level: Time/Date:	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blows/ 6 Inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						ASPHALT		0
2						Clayey SILT, orange, hard, dry.		2
4								4
6						SILT, light brown, hard, dry.		6
8								8
10								10
12						SILT, pink, hard, dry.		12
14						SILT, trace partially weathered rock, orange and white with black veins, dry.		14
16								16
18								18
20								20
22								22
24						SILT, trace partially weathered rock, orange with black veins, dry.		24
26								26
28								28
30								30
32								32
34								34
						Boring Terminated at 35 ft.		

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9800

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/26/12

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: SCDOT (last) (first)
Address: P.O. Box 191
City: Columbia State: SC Zip: 29202-0191
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Liberty Gas
Street Address: Rt. 2 Hwy 601 North
City: Pageland Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Tan silty clay	14	14
Hard clay	10	24
Sand & silt w/clay traces	11	35

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

5. REMARKS:
MW-225

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

7. PERMIT NUMBER: UST #18871

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

9. WELL DEPTH (completed) Date Started: July 11, 2012
35' ft. Date Completed: July 11, 2012

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 25 ft. depth
____ in. to ____ ft. depth
Height: Above /Below / Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 10'
Set Between: 25 ft. and 35 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 22 ft. to 35 ft.
Effective size #2 Uniformity Coefficient: ____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0 ft. to 20 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☑ 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: Blake Cabit CERT. NO.: 963
Address: (Print) Level: A B C D (circle one)
2078 Alpine Drive, Aiken, SC 29803
Telephone No.: 803.522.3793 Fax No.:

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

Signed: Blake Cabit (Well Driller) Date: July 23, 2012

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

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

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: MW-22D
Client: SCDOT		*Well Construction Data*	
Date Started: 7/9/12	Date Completed: 7/10/12	Screen: 2" (0.010) Slotted PVC	From: 55 - To: 60
Logged By: W. Walker	Coordinates:	Pack: #2 Filter Sand	From: 53 - To: 60
Drilling Co.: Southern Sonic	Driller: B. Cabit	Seal: Bentonite Pellets	From: 51 - To: 53
Method: Sonic	Equipment: Sonic Rig	Grout: Portland Cement Type I	From: 0 - To: 51
Boring Depth (ft.): 60.0	TOC Elevation:	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 6/9	GW Level: Time/Date:	Outer Casing/Stick Up: 6" Threaded PVC Sch 40 to 40 ft.	

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						ASPHALT		0
2						Clayey SILT, orange, hard, dry.		2
4								4
6						SILT, light brown, hard, dry.		6
8								8
10						SILT, pink, hard, dry.		10
12								12
14						SILT, trace partially weathered rock, orange and white with black veins, dry.		14
16								16
18								18
20								20
22								22
24						SILT, trace partially weathered rock, orange with black veins, dry.		24
26								26
28								28
30								30
32								32
34								34
36						SILT, trace clay, white and gray, hard, dry.		36
38								38
40								40
42								42
44								44

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/26/12

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-8000, Fax: 803-741-9900

Terracon GEOLOGIST LOG

Project: EDDIE'S PIT STOP	Project Number: 73098106	Boring/Well: MW-22D
Client: SCDOT		Well Construction Data

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
46								46
48								48
50						PARTIALLY WEATHERED ROCK with silt, gray, dry.		50
52								52
54								54
56								56
58								58
60						Boring Terminated at 60 ft.		60

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/26/12

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

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: SCDOT (last) (first)
Address: P.O. Box 191
City: Columbia State: SC Zip: 29202-0191
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Liberty Gas
Street Address: Rt. 2 Hwy 601 North
City: Pageland Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Tan silty clay	16	16
Hard clay	15	31
Sand w/clay	10	41
Silty sandy clay	19	60
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW - 22D

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

7. PERMIT NUMBER: UST #18871

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

9. WELL DEPTH (completed) Date Started: July 9, 2012
60' ft. Date Completed: July 10, 2012

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"/6"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 55 ft. depth
0 in. to 40 ft. depth
Height: Above /Below ✓ Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5'
Set Between: 55 ft. and 60 ft.
ft. and ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 52 ft. to 60 ft.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 49 ft.

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

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

19. WELL DRILLER: Blake Cabit CERT. NO.: 963
Address: (Print) Level: A B C D (circle one) ✓
2078 Alpine Drive, Aiken, SC 29803
Telephone No.: 803.522.3793 Fax No.:

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

Signed: Blake Cabit Date: July 23, 2012
Well Driller

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

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

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-1	5/20/03	43	33- 43	298.85	35.70	263.15
	5/11/09				19.35	279.50
	9/8/11				36.7	262.15
	1/6/12				34.63	264.22
	3/27/12				26.21	272.64
	4/4/12			554.13	25.8	528.33
	7/18/12				31.0	523.13
MW-2	5/11/09	43	28-43	298.98	17.25	281.73
	7/7/11				25.85	273.13
	8/22/11				31.82	267.16
	9/8/11				33.1	265.88
	1/6/12				31.91	267.07
	3/27/12				23.25	275.73
	4/4/12			554.18	23.65	530.53
	7/18/12				27.52	526.66
MW-3	5/11/09	45	30-45	298.36	19.2	279.16
	9/8/11				36.28	262.08
	1/6/12				35.45	262.91
	3/27/12				31.74	266.62
	4/4/12			553.62	28.89	524.73
	7/18/12				30.1	523.52
MW-3D	9/8/11	60	55-60	298.51	25.19*	273.32
	1/5/12				35.12	263.39
	3/27/12				28.9	269.61
	4/4/12			553.74	29.48	524.26
	7/18/12				30.5	523.24

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-4	5/11/09	49	34-49	299.29	20.16	279.13
	9/8/11				37.2	262.09
	1/6/12				35.79	263.50
	3/27/12				27.85	271.44
	4/4/12			554.56	27.9	526.66
	7/18/12				32.13	522.43
MW-5	8/9/10	25	15 - 25	296.16	17.35	278.81
	7/7/11				23.1	273.06
	8/22/11				24.92	271.24
	9/8/11				24.91	271.25
	1/6/12				24.36	271.80
	3/27/12				20.22	275.94
	4/4/12			551.42	19.79	531.63
	7/18/12				23.46	527.96
MW-6	8/23/11	35	25-35	298.58	Dry	Dry
	8/30/11				30.3	268.28
	9/8/11				28.45	270.13
	1/6/12				24.43	274.15
	3/27/12				19.21	279.37
	4/4/12			553.79	18.05	535.74
	7/18/12				20.9	532.89
MW-7	8/25/11	35	24-34	298.18	Dry	Dry
	8/30/11				Dry	Dry
	9/8/11				33.4	264.78
	1/6/12				32.39	265.79
	3/27/12				29.95	268.23
	4/4/12			553.42	28.02	525.40
	7/18/12				25.16	528.26

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-8	8/29/11	35	25-35	297.5	Dry	Dry
	9/8/11				Dry	Dry
	1/6/12				32.85	264.65
	3/27/12				27.32	270.18
	4/4/12			552.76	27.05	525.71
	7/18/12				28.91	523.85
MW-8D	9/8/11	60	55-60	297.35	25.35*	272.00
	1/5/12				34.24	263.11
	3/27/12				26.12	271.23
	4/4/12			552.53	26.07	526.46
	7/18/12				31.3	521.23
MW-9	8/26/11	35	24-34	299.74	Dry	Dry
	8/30/11				Dry	Dry
	9/8/11				33.93	265.81
	1/6/12				33.6	266.14
	3/27/12				30.65	269.09
	4/4/12			554.89	29.12	525.77
	7/18/12				29.89	525.00
MW-10	8/27/11	35	25-35	299.54	Dry	Dry
	9/8/11				34.4	265.14
	1/6/12				34.5	265.04
	3/27/12				24.57	274.97
	4/4/12			554.79	24.79	530.00
	7/18/12				28.71	526.08
MW-11	1/6/12	35	19.5-34.5	293.42	32.0	261.42
	3/27/12				21.4	272.07
	4/4/12			548.76	21.5	527.26
	7/18/12				26.4	522.36

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-12	1/6/12	35	20-35	290.46	26.05	264.41
	3/27/12				17.69	272.77
	4/4/12			545.68	21.5	524.18
	7/18/12				23.18	522.50
MW-13	1/6/12	35	20-35	289.98	27.9	262.08
	3/27/12				17.45	272.53
	4/4/12			545.2	16.9	528.30
	7/18/12				22.32	522.88
MW-14	1/6/12	35	20-35	291.24	30.72	260.52
	3/27/12				19.34	271.90
	4/4/12			546.48	20.76	525.72
	7/18/12				22.52	523.96
MW-15	4/4/12	32	17-32	545.77	25.45	520.32
	7/18/12				23.52	522.25
MW-15D	4/4/12	60	55-60	545.89	18.11	527.78
	7/18/12				23.86	522.03
MW-16	4/4/12	32	17-32	546.47	19.02	527.45
	7/18/12				24.2	522.27
MW-16D	4/4/12	60	55-60	546.59	19.7	526.89
	7/18/12				24.47	522.12
MW-17	4/4/12	35	20-35	554.33	20.39	533.94
	7/18/12				21.53	532.80
MW-17D	4/4/12	60	55-60	554.3	27.54	526.76
	7/18/12				31.37	522.93
MW-18	4/4/12	32	17-32	546.56	19.65	526.91
	7/18/12				23.9	522.66
MW-18D	4/4/12	60	55-60	546.27	19.17	527.10
	7/18/12				23.17	523.10
MW-19	4/4/12	32	17.5-27.5	544.53	18.5	526.03
	7/18/12				22.53	522.00

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-19D	4/4/12	60	55-60	544.11	16.2	527.91
	7/18/12				22.41	521.70
MW-20	7/18/12	35	25-35	556.55	27.02	529.53
MW-20D	7/18/12	60	55-60	556.66	33.31	523.35
MW-21	7/18/12	35	25-35	555.73	24.72	531.01
MW-21D	7/18/12	60	55-60	555.75	32.83	522.92
MW-22	7/18/12	35	25-35	555.29	31.34	523.95
MW-22D	7/18/12	60	55-60	554.98	32.23	522.75
TW-14	4/4/12	34	24-34	547.23	20.76	526.47
TW-15	4/4/12	29	19-29	546.42	19.54	526.88
TW-16	4/4/12	29	19-29	545.42	16.4	529.02
TW-17	4/4/12	26	16-26	544.74	15.29	529.45
TW-18	4/4/12	29	19-29	544.3	11.47	532.83
TW-19	4/4/12	28	18-28	545.64	14.15	531.49
TW-20	4/4/12	29	19-29	546.56	18.62	527.94
TW-21	4/4/12	25	15-25	543.4	9.32	534.08
TW-22	4/4/12	25	15-25	544.8	12.7	532.10
TW-23	4/4/12	25	15-25	545.68	14.84	530.84

Notes:
1) Top pf casing elevations surveyed by Terracon personnel
2) * - Maybe altered by drilling fluid and poor development

TABLE 4
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYL-BENZENE (ug/l)	XYLENES (ug/l)	MTBE (ug/l)	NAPHTH-ALENE (ug/l)	EDB (ug/l)	1,2 DCA (ug/l)	Total Lead (ug/l)
RBSLs	–	*5*	*1,000*	*700*	*10,000*	*40*	*25*	*0.05*	*5.0*	*15*
MW-1	5/11/09	**3,250**	265	**1,580**	5,160	< 3.89	**841**	**1.66**	NA	12 *B*
	1/6/12	**3,020**	722	**1,080**	7,510	< 4.20	**773**	**2.91**	**57.5**	< 2.8
	4/5/12	**2,740**	378	**1,940**	9,660	< 3.36	**1,122**	**0.68**	**73.7**	< 2.8
	7/19/12	**2,520**	295	1,280	5,710	< 1.21	663	<	**60.9**	< 2.8
MW-2	5/11/09	**2,290**	73.6	699	2,140	< 1.94	**186**	**0.385**	NA	3.3
	1/6/12	**4,210**	262	**1,390**	6,280	< 3.36	**968**	**1.02**	**113**	< 2.8
	4/5/12	**2,740**	378	**1,940**	9,660	< 3.36	**1,120**	**0.682**	**73.7**	< 2.8
	7/17/12	**3,940**	146	**1,100**	4,250	< 1.51	**604**	0.210	122	1.1J
MW-3	5/11/09	**290**	63.5	154	217	< 0.194	**39.6**	< 0.0035	NA	**27**
	1/6/12	**138**	< 0.155	47.2	40.9	< 0.168	**105**	< 0.0032	< 0.242	< 2.8
	4/5/12	**148**	1.16	40.7	< 0.176	< 0.084	**73**	< 0.0029	< 0.121	13.0 J
	7/17/12	**91.6**	0.408J	48.9	5.71	< 0.06	**74.6**	< 0.0029	1.26	< 0.28
MW-3D	1/5/12	**165**	< 0.388	42.3	20.1	< 0.42	**56.7**	< 0.0032	**23.7**	**65**
	4/5/12	**405**	10.7	115	83.3	< 0.42	**73**	< 0.0029	**28**	**64**
	7/17/12	**248**	4.08J	71.9	43.6	< 0.302	**51.2**	< 0.0029	**24.3**	5.3
MW-4	5/11/09	**75.8**	< 0.082	14	200	1.16	16.7	0.042	NA	14 B
	1/6/12	**324**	< 0.155	32.6	437	< 0.168	**126**	0.077	< 0.242	< 2.8
	4/5/12	**98.3**	< 0.078	26.6	71.6	< 0.084	**94.4**	< 1.11	< 0.121	6.6 J
	7/18/12	**263**	< 0.254	83.7	361	< 0.121	**146**	0.033	4.97	< 2.8
MW-5	8/9/10	**166**	44.4	539	1,070	< 0.517	**307**	0.269	NA	3.4 B
	1/6/12	**125**	25.7	630	1,260	< 0.839	**334**	< 0.0032	< 1.21	< 2.8
	4/5/12	**93.7**	26.6	497	943	< 0.839	**242**	< 0.0029	< 1.21	< 2.8
	7/19/12	**70.6**	12.9	214	388	< 0.121	**154**	< 0.0029	< 0.238	< 2.8
MW-6	1/6/12	< 0.049	< 0.078	< 0.18	1.37 J	< 0.084	6.42	< 0.0032	< 0.121	4.5 J
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	6.49	< 0.0029	< 0.121	< 2.8
	7/18/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	7.11	< 0.0029	< 0.119	< 2.8
MW-7	1/6/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.0032	< 0.121	**22.0**
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	3.46 J	< 0.0029	< 0.121	12 J
	7/17/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.119	< 0.0029	< 0.28
MW-8	1/6/12	**970**	31.6	262	450	< 0.839	**91.1**	< 0.0032	< 1.21	< 2.8
	4/5/12	**1,000**	86.4	828	2,420	< 1.68	**389**	< 0.0029	**8.66 J**	3.8 J
	7/19/12	**1,040**	117	962	3,060	< 0.604	**450**	< 0.0029	**7.11 J**	< 2.8
MW-8D	1/5/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	5.21	< 0.0032	1.34	11.0
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.121	**27.0**
	7/19/12	< 0.099	< 0.127	1.48	4.59	< 0.06	5.24	< 0.0029	< 0.119	< 2.8
MW-9	1/6/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.0032	< 0.121	0.03
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.12	< 2.8
	7/17/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	< 0.119	< 0.28

wells located @
* Site # D22461

TABLE 4
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYL-BENZENE (ug/l)	XYLENES (ug/l)	MTBE (ug/l)	NAPHTH-ALENE (ug/l)	EDB (ug/l)	1,2 DCA (ug/l)	Total Lead (ug/l)
RBSLs	--	*5*	*1,000*	*700*	*10,000*	*40*	*25*	*0.05*	*5.0*	*15*
MW-10	1/6/12	**26.3**	< 0.078	11.4	21.8	**48.4**	5.34	0.015	< 0.121	< 2.8
	4/5/12	**2,150**	< 3.1	194	933	**259**	**263**	**0.268**	**57.5**	< 2.8
	7/18/12	**2,680**	< 3.18	148	1,150	276	**200**	**0.1**	**68.3**	< 2.8
MW-11	1/6/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.0032	< 0.121	< 2.8
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.121	< 2.8
	7/1812	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	2.15 J	< 0.0029	< 0.119	< 2.8
MW-12	1/6/12	**3,140**	< 3.10	89.5	247	< 3.36	**465**	< 0.0032	< 4.84	< 2.8
	4/5/12	**2,980**	221	485	1,980	< 3.36	**204**	< 0.0029	**33.6 J**	< 2.8
	7/20/12	5,580	457	1,150	4,040	< 3.02	**460**	< 0.0029	**39.4 J**	< 2.8
MW-13	1/6/12	**56**	< 0.388	< 0.9	4.56 J	< 0.42	**33.5**	< 0.0032	10.7	4.1 J
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	1.34	< 2.8
	7/20/12	0.584 J	< 0.127	0.522 J	10.2	< 0.06	4.14 J	< 0.0029	< 0.119	< 2.8
MW-14	1/6/12	**5.73**	7.77	< 0.18	< 0.123	< 0.084	5.57	< 0.0032	1.74	**25.0**
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.121	< 2.8
	7/19/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	< 0.119	< 2.8
MW-15	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.121	< 2.8
	7/20/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	< 0.119	< 2.8
MW-15D	4/5/12	**5.95**	< 0.078	6.33	10.9	< 0.084	5.91	< 0.0029	< 0.121	< 2.8
	7/19/12	**9.42**	< 0.127	1.50	< 0.384	< 0.06	3.93 J	< 0.0029	6.78	< 2.8
MW-16	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.121	< 2.8
	7/19/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	< 0.119	< 2.8
MW-16D	4/5/12	**15.9**	< 0.078	6.1	12.6	< 0.084	6.32	< 0.0029	< 0.121	3.8 J
	7/19/12	**7.7**	< 0.127	< 0.119	2.54 J	< 0.06	2.46 J	< 0.0029	0.942 J	< 2.8
MW-17	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.121	< 2.8
	7/18/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	< 0.119	< 2.8
MW-17D	4/5/12	1.89	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	4.74	< 2.8
	7/18/12	0.618 J	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	1.17	< 2.8
MW-18	4/5/12	3.73	< 0.078	19.0	21.9	< 0.084	4.01 J	< 0.0029	< 0.121	4.6 J
	7/20/12	< 0.099	< 0.127	4.8	5.5	< 0.06	4.27 J	< 0.0029	< 0.119	< 2.8
MW-18D	4/5/12	**90.1**	< 0.078	< 0.18	1.17 J	< 0.084	4.46 J	< 0.0029	**21.7**	6.1 J
	7/19/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	**19.4**	< 2.8
MW-19	4/5/12	4.87	< 0.078	0.328 J	1.01 J	< 0.084	< 0.175	< 0.0029	**12.5**	< 2.8
	7/20/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	**63.7**	< 2.8
MW-19D	4/5/12	3.07	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	4.87	11.0 J
	7/19/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	1.46	< 2.8
MW-20	7/18/12	**325**	1.77 J	53	105	35	2.56 J	**0.112**	**7.21**	< 2.8
MW-20D	7/18/12	**22.6**	< 0.127	1.7	8.1	25.1	1.26 J	< 0.0029	3.43	< 2.8
MW-21	7/18/12	**11,400**	12,100	1,170	5,840	**2,870**	294 J	**3.75**	**436**	< 2.8

TABLE 4
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYL-BENZENE (ug/l)	XYLENES (ug/l)	MTBE (ug/l)	NAPHTH-ALENE (ug/l)	EDB (ug/l)	1,2 DCA (ug/l)	Total Lead (ug/l)
RBSLs	–	*5*	*1,000*	*700*	*10,000*	*40*	*25*	*0.05*	*5.0*	*15*
MW-21D	7/18/12	**220**	473	151	785	**64.7**	**51.2**	0.017	8.19	< 2.8
MW-22	7/18/12	**262**	37.7	73.9	286	5.85	3.84 J	0.013	1.65 J	< 2.8
MW-22D	7/18/12	**1,300**	80.2	241	639	61	157	0.011	19.6	< 2.8
PW-1 On-Site Supply Well	1/5/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.0032	1.89	NA
	1/27/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.0029	1.97	NA
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.121	NA
	7/17/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	1.22	NA
PW-2 Casper Supply Well	1/5/12	4.64	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.0032	< 0.121	NA
	1/27/12	1.15	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.0029	< 0.121	NA
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.0029	< 0.121	NA
	7/17/12	0.448J	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	< 0.119	NA
Casper Residence Municipal Water Supply	1/27/12	< 0.078	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.0029	< 0.121	NA

Notes:

1) Results shown in boldface type indicate concentrations which exceed the RBSL for that compound
2) ug/l - micrograms per liter or parts per billion
3) RBSL- Risk-Based Screening Level as defined by the SCDHEC RBCA Document
4) *J* - indicates an estimated value
5) *B* - indicates the result is between the Method Detection Limit and the Reporting Detection Limit
6) *NA* - Not Analyzed
7) 1,2 DCA - 1,2 Dichloroethane

TABLE 5
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Related Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	Ethanol (ug/L)	ETBE (ug/L)	DIPE (ug/L)	ETBA (ug/L)	TBA (ug/L)	TAME (ug/L)	TAA (ug/L)	TBF (ug/L)
ALs	–	*10,000*	*47*	*150*	*NE*	*1,400*	*128*	*240*	*NE*
MW-1	1/6/12	< 4090	< 55.5	< 5.25	< 1,880	< 14.5	< 52.5	**3,570**	< 108
	4/5/12	< 3,270	< 44.4	77.9J	< 1,500	< 11.6	< 42	**3,880**	< 86.4
	7/19/12	< 1640	< 22.2	32.8J	< 752	< 5.8	< 21.0	**3,520**	< 43.2
MW-2	1/6/12	< 3,270	< 44.4	**836 J**	< 1,500	< 11.6	< 42	**6,820**	< 86.4
	4/5/12	< 4,090	,55.5	124J	< 1,880	149J	< 52.5	**6,580**	< 108
	7/17/12	< 2,050	< 27.8	71.9J	< 940	158J	< 26.3	**6,590**	< 54
MW-3	1/6/12	< 164	< 2.22	3.40 J	< 75.2	< 0.58	< 2.1	**243**	< 4.32
	4/5/12	< 81.8	< 1.11	4.64 J	< 37.6	< 0.29	< 1.05	**254**	< 2.16
	7/17/12	< 81.8	< 1.11	1.53J	< 37.6	4.73J	< 1.05	**170**	< 2.16
MW-3D	1/5/12	< 409	< 5.55	42.8	< 188	55.5	< 5.25	**2,280**	< 10.8
	4/5/12	< 409	< 5.55	< 43	< 188	< 62.1	< 5.25	**2,120**	< 10.8
	7/17/12	< 409	< 5.55	36.1	< 188	71	< 5.25	**2,340**	< 10.8
MW-4	1/6/12	< 164	< 2.22	3.52 J	< 75.2	< 0.58	< 2.1	**691**	< 4.32
	4/5/12	< 81.8	< 1.11	2.34 J	< 37.6	8.65 J	< 1.05	**380**	< 2.16
	7/18/12	< 164	< 2.22	2.88 J	< 75.2	< 0.58	< 2.1	**463**	< 4.32
MW-5	1/6/12	< 818	< 11.1	< 1.05	< 376	< 2.90	< 10.5	**278**	< 21.6
	4/5/12	< 818	< 11.1	< 1.05	< 376	< 2.9	< 10.5	139 J	< 21.6
	7/19/12	< 164	< 2.22	< 0.210	< 75.2	< 0.58	< 2.10	134	< 4.32
MW-6	1/6/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/18/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-7	1/6/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/17/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-8	1/6/12	< 818	< 376	25.9 J	< 11.1	< 2.90	< 10.5	**4,160**	< 21.6
	4/5/12	< 1,640	< 22.2	30.4 J	< 752	< 5.8	< 21.0	**1,360**	< 43.2
	7/19/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-8D	1/5/12	< 81.8	< 1.11	2.74 J	< 37.6	< 0.29	< 1.05	21.4	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.150	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/19/12	< 81.8	< 1.11	< 0.150	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-9	1/6/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	10.5 J	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/17/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16

TABLE 5
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Related Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	Ethanol (ug/L)	ETBE (ug/L)	DIPE (ug/L)	ETBA (ug/L)	TBA (ug/L)	TAME (ug/L)	TAA (ug/L)	TBF (ug/L)
ALs	--	*10,000*	*47*	*150*	*NE*	*1,400*	*128*	*240*	*NE*
MW-10	1/6/12	< 81.8	< 1.11	1.07 J	< 37.6	41.2	< 1.05	106	< 2.16
	4/5/12	< 3,270	< 44.4	< 4.2	< 1,500	**1,420**	< 42	**3,930**	< 86.4
	7/18/12	< 2050	< 27.8	< 2.63	< 940	1,270	< 26.3	**3,680**	< 54
MW-11	1/6/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/18/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-12	1/6/12	< 3,270	< 44.4	73.4 J	< 1,500	< 11.6	< 42	**10,600**	< 86.4
	4/5/12	< 3,270	< 44.4	77.5 J	< 1,500	< 11.6	< 42	**6,010**	< 86.4
	7/20/12	< 4090	< 55.5	43.5 J	< 1880	< 14.5	< 52.5	**5,210**	< 108
MW-13	1/6/12	< 409	< 5.55	15.6 J	< 188	47.2 J	< 5.25	**1,710**	< 10.8
	4/5/12	< 81.8	< 1.11	1.95 J	< 37.6	< 0.29	< 1.05	106	< 2.16
	7/20/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-14	1/6/12	< 81.8	< 1.11	1.79 J	< 37.6	< 0.29	< 1.05	158	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	12.7 J	< 2.16
	7/19/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-15	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	2.87 J	< 1.05	24.3	< 2.16
	7/20/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-15D	4/5/12	< 81.8	< 1.11	2.07 J	< 37.6	10.1	< 1.05	36.7	< 2.16
	7/19/12	< 81.8	< 1.11	4.47 J	< 37.6	< 0.29	< 1.05	43.7	< 2.16
MW-16	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/19/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-16D	4/5/12	< 81.8	< 1.11	1.63 J	< 37.6	< 0.29	< 1.05	49.8	< 2.16
	7/21/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-17	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	8.2 J	< 2.16
	7/18/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-17D	4/5/12	< 81.8	< 1.11	3.54 J	< 37.6	< 0.29	< 1.05	8.81 J	< 2.16
	7/18/12	< 81.8	< 1.11	0.875 J	< 37.6	< 0.29	< 1.05	6.61 J	< 2.16
MW-18	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	7.91 J	< 2.16
	7/20/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-18D	4/5/12	< 81.8	< 1.11	31.4	< 37.6	< 0.29	< 1.05	93.6	< 2.16
	7/19/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	53.8	< 2.16
MW-19	4/5/12	< 81.8	< 1.11	< 74.2	< 37.6	190	< 1.05	**301**	< 2.16
	7/20/12	< 81.8	< 1.11	59	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
MW-19D	4/5/12	< 81.8	< 1.11	5.71	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/19/12	< 81.8	< 1.11	5.22	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16

TABLE 5
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Related Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	Ethanol (ug/L)	ETBE (ug/L)	DIPE (ug/L)	ETBA (ug/L)	TBA (ug/L)	TAME (ug/L)	TAA (ug/L)	TBF (ug/L)
ALs	–	*10,000*	*47*	*150*	*NE*	*1,400*	*128*	*240*	*NE*
MW-20	7/18/12	< 164	< 2.22	< 0.210	< 75.2	51.2	< 2.1	420	< 4.32
MW-20D	7/18/12	< 81.8	< 1.11	< 0.105	< 37.6	46.2	2.09 J	66	< 2.16
MW-21	7/18/12	< 8180	< 3760	< 10.5	< 3760	16,300	< 105	32,100	< 216
MW-21D	7/18/12	< 409	< 5.55	< 0.525	< 188	179	< 5.25	670	< 10.8
MW-22	7/18/12	< 164	< 2.22	< 0.21	< 75.2	27.2	< 2.1	163	< 4.32
MW-22D	7/18/12	< 818	< 11.1	< 1.05	< 376	566	< 10.5	2,780	< 21.6
PW-1	1/5/12	NA	NA	NA	NA	NA	NA	NA	NA
	4/5/12	NA	NA	NA	NA	NA	NA	NA	NA
	7/17/12	NA	NA	NA	NA	NA	NA	NA	NA
PW-2	1/5/12	NA	NA	NA	NA	NA	NA	NA	NA
	4/5/12	NA	NA	NA	NA	NA	NA	NA	NA
	7/17/12	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

1) Results shown in boldface type indicate detected compounds.

2) ug/l - micrograms per liter or parts per billion

3) ALs- SCDHEC Action Levels for Oxygenate Compounds, dated November 2008.

4) NE - Not Established

6) J indicates an estimated value below the laboratory reporting limit

7) 8 Oxygenates abbreviated as:

ETBE = ethyl tert-butyl ether
TBA = t-butanol
TBF = tert-butyl formate
DIPE = diisopropyl ether
TAME = t-amyl methyl ether
1,2-DCA = 1,2-dichloroethane
ETBA = ethyl tert-butanol
TAA = tert-amyl alcohol

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

FEB 04 2013

UST DOCKETING

MICHAEL WALLACE
CAROINA COUNTRY LLC
1908 HWY 601N
PAGELAND SC 29728-8292

Re: QAPP Contractor Addendum Directive for IGWA
Carolina Country Convenience, 1908 Hwy 601 N, Pageland, SC
UST Permit #02261
Release Reported October 11, 2012
Tier II Assessment Report for UST Permit #18871 received August 27, 2012
Chesterfield County

Dear Mr. Wallace:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report submitted by Terracon Consultants, Inc. The report documents benzene, MTBE, naphthalene, EDB, and 1,2-DCA, in excess of risk based screening levels from monitoring wells MW-10, MW-29, MW-20D, MW-21, MW-21D, MW-22, and MW-22D.

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of an Initial Groundwater Assessment (IGWA) as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. The IGWA must be conducted in accordance with the UST QAPP and must be conducted in compliance with all applicable regulations once the site specific QAPP Contractor Addendum is approved. A copy of the UST QAPP is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm. **Your contractor must complete and submit the QAPP Contractor Addendum within thirty (30) days of the date of this letter.** The QAPP should include sampling of each water supply well within 250 feet of this facility. **Please note that approval from the Agency must be issued before work begins.**

Please be aware that the release is not currently qualified for funding from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. SUPERB funds cannot be expended for site rehabilitation until a completed SUPERB application is on file with the Division of UST Management. The SUPERB application form should be completed and sent to this office to the attention of Denise Place. Our records indicate that a site rehabilitation contractor has not been selected for this release. **The enclosed form should be completed and returned to my attention within fifteen (15) days of the date of this letter.** A list of certified contractors is enclosed for your information.

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Division by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

On all correspondence regarding this site, please reference UST permit number 02261. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6395. I can also be reached by email at hornosms@dhec.sc.gov or by fax at (803) 896-6245.

Sincerely,

Minda Hornosky, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: UST Owner/Operator Selection Form
List of Certified Contractors

cc: Terracon Consultants, Inc., 521 Clemson Road, Columbia, SC 29229 (without enc.)
Technical file (with Owner/Operator Selection Form)

Return to Minda Hornosky, 2600 Bull St., Columbia, SC 29201

UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR LEAD INFORMATION SHEET

1. CONTRACTOR OF CHOICE

As the UST Owner/Operator of the UST Permit #02261, I would like to use the contractor or person(s)* listed below and request that they represent me for:

___ IGWA
___ All future assessment scopes. **

Name of Contractor/Person(s) _____

Address _____

_____

_____

Telephone Number _____ Certification # _____

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 fiancée.

3. PAYMENT

The first $25,000.00 in eligible site rehabilitation costs will be applied against the applicable SUPERB deductible, upon submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment.

For eligible costs exceeding the $25,000.00 deductible, 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)

_____ For eligible costs exceeding the deductible, I request that payment be made to me after I have paid the contractor.

_____ For eligible costs exceeding the deductible, I request that payment be made directly to the contractor.

(Note: all costs must receive prior financial approval from the Agency regardless of payment option.)

Underground Storage Tank Owner/Operator Signature _____

Printed Name _____

Date Signed _____

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

CERTIFIED MAIL
91 7108 2133 3939 6181 5848

MICHAEL WALLACE
CAROINA COUNTRY LLC
1908 HWY 601N
PAGELAND SC 29728-8292

APR 11 2013

UST 3tech DOCKETING

Re: Notice of Alleged Violation
Carolina Country Convenience, 1908 Hwy 601 N, Pageland, SC
UST Permit #02261
Release Reported October 11, 2012
Tier II Assessment Report for UST Permit #18871 received August 27, 2012
Chesterfield County

Dear Mr. Wallace:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) directed you in February 2013 to complete an Quality Assurance Project Plan (QAPP) Contractor Addendum for an Initial Groundwater Assessment (IGWA) with the QAPP due on or before March 3, 2013 and the report due 60 days after the QAPP is approved. To date the required QAPP and report have not been received. In accordance with Section 280.65 of the South Carolina Underground Storage Tank Regulations, the assessment must be conducted as chemicals of concern are above the risk-based-screening levels.

Implementation of this scope of work should proceed upon receipt of this correspondence. **Please submit the QAPP Contractor Addendum on or before May 11, 2013 and the report 60 days after QAPP approval. Should you not submit the QAPP Contractor Addendum and IGWA report on or before these dates, this office will initiate further enforcement action. Further, our records indicae that an Owner/Operator Contractor Selection Form has not been filed for the release. The enclosed form should be completed and returned to my attention within fifteen days of receipt of this letter.**

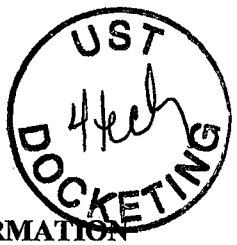
On all correspondence regarding this site, please reference UST Permit #02261. If you have any questions concerning this correspondence, please call me at (803) 896-6395.

Sincerely,

Minda Hornosky, Project Manager
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: UST Owner/Operator Selection Form
List of Certified Contractors

cc: Technical file (w/o enclosure)



Return to Minda Hornosky, 2600 Bull St., Columbia, SC 29201

UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR LEAD INFORMATION SHEET

1. CONTRACTOR OF CHOICE

As the UST Owner/Operator of the UST Permit #02261, I would like to use the contractor or person(s) listed below and request that they represent me for:

___ IGWA
___ All future assessment scopes. **

Name of Contractor/Person(s) Geological Resources Inc

Address 2301 Crown Point Executive
Charlotte NC 28227

Telephone Number 888-870-4133 Certification # _____

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? ___V___ Yes _____ No (please initial) MO

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 fiancée.

3. PAYMENT

The first $25,000.00 in eligible site rehabilitation costs will be applied against the applicable SUPERB deductible, upon submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment.

For eligible costs exceeding the $25,000.00 deductible, 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)

_____ For eligible costs exceeding the deductible, I request that payment be made to me after I have paid the contractor.

MO ___ For eligible costs exceeding the deductible, I request that payment be made directly to the contractor.

(Note: all costs must receive prior financial approval from the Agency regardless of payment option.)

Underground Storage Tank Owner/Operator Signature _____

Printed Name Mike Wheeler

Date Signed 04-17-13

Geological Resources, Inc.

UST
MAY 2 0 2013
PROGRAM

May 16, 2013

UST
DOCKETING
5tech

Ms. Minda Hornosky
South Carolina Department of Health
and Environmental Control
Assessment Action Section
UST Management Division
Bureau of Land and Waste Management

Re: GRI Proposal No. 13-227
IGWA Cost Agreement and QAPP Contractor Addendum – Revision 0
Carolina Country Convenience
1908 Highway 601 North, Pageland, Chesterfield County
UST Permit No. 02261

Dear Ms. Hornosky:

In response to your April 11, 2013 QAPP Contractor Addendum Directive for IGWA, Geological Resources, Inc. (GRI) submits the attached QAPP Contractor Addendum (Revision 0) and associated Cost Agreement for conducting IGWA assessment activities at the above referenced site. Please contact me at (704) 845-4010 with any questions.

Sincerely,

W. Scott Ball
Senior Project Manager

enclosure

cc: file

2301 Crown Point Executive Drive Suite F Charlotte, NC 28227
Phone: (704) 845-4010 / (888) 870-4133 Fax: (704) 845-4012

Geological Resources, Inc.
S.C. Rehabilitation Contractor #74
Carolina Country Convenience
UST Permit No. 02261
GRI Proposal No. 13-227
QAPP Revision 0
May 8, 2013

Appendix B: Contractor Addendum

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
Carolina Country Convenience – UST Permit No. 02261

1908 Highway 601 North, Pageland, Chesterfield County, South Carolina

Prepared by: W. Scott Ball

Geological Resources, Inc.
S.C. Site Rehabilitation Contractor #74

Date: 5/8/13

Geological Resources. Inc.

Approvals

Minda Hornosky SC DHEC Project Manager	Signature	Date
John M. Brown, PG - GRI Contractor QA Manager	John M Brown	Date 05/15/13
Scott Ball - GRI Site Rehabilitation Contractor	Scott Ball	Date 5/15/2013
Harry Behzadi – Accutest Laboratories Laboratory Director	Signature	Date 5/10/13

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Check catalyst, air and hydrogen lines 28
As warranted by passing instrument QC and batch QC 28
Accutest Laboratories Southeast, Inc. Orlando FL 28
Bench analyst(s) 28
GC 28
Agilent 6890, OI analytical purge and trap system , or Agilent 7683 autosampler, multiple units 28
Leak check, gas pressure check, septa replacement 28
As warranted by passing instrument QC and batch QC 28
Accutest Laboratories Southeast, Inc. Orlando FL 28
Bench analyst(s) 28
GC/MS 28
Agilent 5973 or 5975, OI Analytical purge and trap system , or Agilent 7683 autosampler, multiple units 28
Leak check, gas pressure check, detector cleaning, septa replacement 28
As warranted by passing instrument QC and batch QC 28
Accutest Laboratories Southeast, Inc. Orlando FL 28
Bench analyst(s) 28
IC 28
Dionex IC2000 and 2100 28
Pump, eluent level, seals and guard column 28
As warranted by passing instrument QC and batch QC 28
Accutest Laboratories Southeast, Inc. Orlando FL 28
Bench analyst(s) 28
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As warranted by passing instrument QC and batch QC 28
Accutest Laboratories Southeast, Inc. Orlando FL 28
Bench analyst(s) 28
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Calibrate with series of standards as described in SW-846 9060A, external standard calibration procedure 30
Initial calibration performed as necessary, and verified daily and every 10 samples (CCV) 30
As described in SW-846 9060A method. 30
In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate 30
Bench Analyst 30

GN215 30
GC 30
Calibrate with series of standards as described in SW-846 8011, external standard calibration procedure 30
Initial calibration performed as necessary, and verified daily and every 10 samples (CCV) 30
As described in SW-846 8011method and RSK 175 30
In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate 30
Bench Analyst 30
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Calibrate with series of standards as described in SW-846 8260B, internal standard calibration procedure 30
Initial calibration performed as necessary, and verified daily (CCV) 30
As described in SW-846 8260B method. 30
In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate 30
Bench Analyst 30
MS005 30
IC 30
Calibrate with series of standards as described in SW-846 9056A, external standard calibration procedure 30
Initial calibration performed as necessary, and verified daily and every 10 samples (CCV) 30
As described in SW-846 9056A method. 30
In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate 30
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GN228 30
ICP 31
Calibrate with series of standards as described in SW-846 6010C, external standard calibration procedure 31
Initial calibration performed as necessary, and verified daily and every 10 samples(CCV) 31
As described in SW-846 6010Cmethod. 31
In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate 31
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Attachments
Site Map
Chain-of-Custody
Cost Agreement Form

A3 Distribution List

Name	Title	Organization/Address	Telephone Number	Fax Number	Email Address
Minda Hornosky	SC DHEC Technical Project Manager	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6395	803-896-6245	Minda Hornosky (hornosmj@dhec.sc.gov)
John M. Brown, P.G.	Project Verifier	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	johnbrown@geologicalresourcesinc.com
Terry D. Kennedy, P.G.	Project Verifier	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	tdk@geologicalresourcesinc.com
Johanna M. Teschner	Project Verifier	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jmt@geologicalresourcesinc.com
John M. Brown, P.G.	QA Officer	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	johnbrown@geologicalresourcesinc.com
Scott Ball	Site Rehabilitation Contractor	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	wsb@geologicalresourcesinc.com
Scott Ball	Field Manager	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	wsb@geologicalresourcesinc.com

Justin Radford	Well Services/Driller	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jjr@geologicalresourcesinc.com
Terry D. Kennedy, P.G.	Well Services/Driller	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	tdk@geologicalresourcesinc.com
Michael Ransier	Well Services/Driller	REDI – 1 Piney Point Whispering Pines, NC 28327	910-690-6688	910-690-6690	mransier@earthlink.net
Harry Behzadi	Laboratory Director	Accutest, 4405 Vineland Road, Suite C-15, Orlando, FL 32811	407-425-6700	427-425-0707	harryb@accutest.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
SC DHEC Technical Project Manager	Minda Hornosky	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6395	803-896-6245	Minda Hornosky (hornosmj@dhec.sc.gov)
QA Officer: Corporate QA officer responsible for overall GRI QA/QC protocol	John M. Brown, P.G.	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	johnbrown@geologicalresourcesinc.com
Site Rehabilitation Contractor: Responsible for preparing site specific QAPP for the SOW required for the subject site and ensuring that	Scott Ball	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	wsb@geologicalresourcesinc.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
activities are conducted in accordance with the QAPP					
Field Manager: Responsible for preparing work order, obtaining correct analytical sampling kits and supervision of field personnel and subcontractors conducting field work	Scott Ball	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	wsb@geologicalresourcesinc.com
Field Geologist responsible for reviewing associated work order and approved QAPP; collection and handling of ground water samples, collection of field measurements, preparation of CoC, submittal of samples to laboratory, collection and transport of purge water	Michael Singlaub	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	mds@geologicalresourcesinc.com
Field Geologist responsible for reviewing associated work order and approved	Hanna Kahrman-Zadak	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	hkz@geologicalresourcesinc.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
QAPP; collection and handling of ground water samples, collection of field measurements, preparation of CoC, submittal of samples to laboratory, collection and transport of purge water					
Field Geologist responsible for reviewing associated work order and approved QAPP; collection and handling of ground water samples, collection of field measurements, preparation of CoC, submittal of samples to laboratory, collection and transport of purge water	Jennifer Abernathy	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jap@geologicalresourcesinc.com
Field Geologist responsible for reviewing associated work order and approved QAPP; collection and handling of	Joanna Alley	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jra@geologicalresourcesinc.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
ground water samples, collection of field measurements, preparation of CoC, submittal of samples to laboratory, collection and transport of purge water					
Field Geologist responsible for reviewing associated work order and approved QAPP; collection and handling of ground water samples, collection of field measurements, preparation of CoC, submittal of samples to laboratory, collection and transport of purge water	Nicole Long	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	nml@geologicalresourcesinc.com
Field Geologist responsible for reviewing associated work order and approved QAPP; collection and handling of ground water samples, collection	Holden McClenny	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	hwm@geologicalresourcesinc.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
of field measurements, preparation of CoC, submittal of samples to laboratory, collection and transport of purge water					
Field Geologist responsible for reviewing associated work order and approved QAPP; collection and handling of ground water samples, collection of field measurements, preparation of CoC, submittal of samples to laboratory, collection and transport of purge water	William Regenthal	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-815-0653	252-321-6094	wlr@geologicalresourcesinc.com
Analytical Laboratory Director: Responsible for QA/QC associated with analyses of soil and ground water samples collected at the project site.	Harry Behzadi	Accutest, 4405 Vineland Road, Suite C-15, Orlando, FL 32811	407-425-6700	427-425-0707	harryb@accutest.com
Soil Boring and Monitoring Well Driller: Responsible	Terry Kennedy	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	tdk@geologicalresourcesinc.com

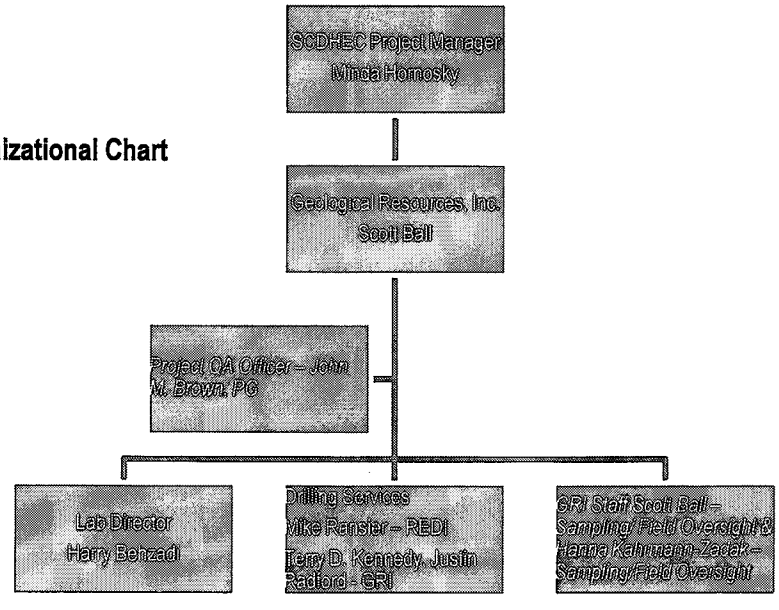
Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
for conducting soil boring/sampling, monitoring well installation activities in accordance with QAPP requirements					
Soil Boring and Monitoring Well Driller: Responsible for conducting soil boring/sampling, monitoring well installation activities in accordance with QAPP requirements	Justin Radford	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jjr@geologicalresourcesinc.com
Soil Boring and Monitoring Well Driller: Responsible for conducting soil boring/sampling, monitoring well installation activities in accordance with QAPP requirements	Mike Ransier	REDI – 1 Piney Point Whispering Pines, NC 28327	910-690-6688	910-690-6690	mransier@earthlink.net
Project Verifier: Senior review of project/phase of work; responsible for QA/QC/Contractor Checklist on specific project/phase of work	John M. Brown, PG	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	johnbrown@geologicalresourcesinc.com
Project Verifier: Senior review of project/phase of work; responsible for	Terry D. Kennedy, PG	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	tdk@geologicalresourcesinc.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
QA/QC/Contractor Checklist on specific project/phase of work					
Project Verifier: Senior review of project/phase of work; responsible for QA/QC/Contractor Checklist on specific project/phase of work	Justin Radford	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jjr@geologicalresourcesinc.com
Project Verifier: Senior review of project/phase of work; responsible for QA/QC/Contractor Checklist on specific project/phase of work	Rohit Shetty, P.E.	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	rshetty@geologicalresourcesinc.com
Project Verifier: Senior review of project/phase of work; responsible for QA/QC/Contractor Checklist on specific project/phase of work	Rae Troiano Brown, P.G.	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-815-0653	252-321-6094	rtb@geologicalresourcesinc.com
Project Verifier: Senior review of project/phase of work; responsible for QA/QC/Contractor	Johanna M. Teschner	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jmt@geologicalresourcesinc.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
Checklist on specific project/phase of work					

Table 2A Addendum Role Identification and Contact Information

Figure 1A Organizational Chart



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 release for the site was reported on October 11, 2012. GRI has no information regarding any previous assessment work conducted at the site. The next proposed scope of work for the site is to conduct an IGWA.

Please answer the following: Does this project fall under UST or Brownfields area?

UST

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).***

   Initial Ground Water Assessment (IGWA). SOW will include the installation of one monitoring well as close as possible to the former gasoline UST area and one monitoring well in the area of the product dispensers. **The approximate monitoring well location is shown on the attached Figure 2**. Soil samples will be collected for screening at five-foot intervals during advancement of each monitoring well. The soil sample from the interval exhibiting the highest field-screening concentration will be submitted for laboratory analyses. The monitoring well will be installed to an approximate total depth of 35 feet and completed with a 10-foot screened interval set to intersect the water table. Final monitoring well depth and screen interval will be determined based on field observations. A ground water sample will be collected from the well approximately 24 hours after installation or when the ground water returns to pre-drilling conditions. The soil and ground water samples collected will be submitted for laboratory analyses in accordance with the guidelines set forth in the Initial Ground Water Assessment Document. A 1,000-foot radius receptor survey will be completed in order to identify any potential receptors (e.g., utilities, surface waters, wetlands, water supply wells, irrigation wells, etc.) Any water supply wells located within a 250-foot radius of the site will be sampled (PW-1 and PW-2). A site map showing all site features, all utilities located within 250 of the site, location of the UST system and the new monitoring well (MW-1) will be provided.

2. ***The work will begin within*** 10 business days ***after cost approval and the assessment activities should be complete by*** 30 days after approval of cost agreement.

3. ***Are there are time or resource constraints?*** Yes ***Include those factors that may interfere with the tentative schedule.*** Inclement weather, personnel availability, equipment failures, could possibly bring changes such as delay of final report submittal, to the tentative schedule.

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.

Carolina Country Convenience, 1908 Highway 601 North, Pageland, Chesterfield County, SC (see attached Figures 1 & 2)

A8 Training and Certificates

Required training and licenses:

Title/Job	Name	Training Required	Date training received	Type of License	License Number
Project Manager	Scott Ball	8 hour HAZWOPER	8/20/2012	NA	NA
Project Manager	William Regenthal	8 hour HAZWOPER	6/4/2012	NA	NA
Field Geologist	Michael Senglaub	8 hour HAZWOPER	1/22/2013	NA	NA
Field Geologist	Nicole Long	8 hour HAZWOPER	8/20/2012	NA	NA
Field Geologist	Hanna Kahrman-Zadak	40 hour HAZWOPER	7/16/2012	NA	NA
Field Geologist	Holden McClenney	40 hour HAZWOPER	01/21/13	NA	NA
Field Engineer	Jennifer Abernathy	8 hour HAZWOPER	8/20/2012	NA	NA
Field Engineer	Joanna Alley	8 hour HAZWOPER	1/21/2013	NA	NA
Senior	John Brown, P.G.	NA	3/10/1994	P.G.	S.C. 1116

Title/Job	Name	Training Required	Date training received	Type of License	License Number
Geologist					
Senior Geologist	Terry D. Kennedy, P.G.	NA	7/1/1995	P.G.	S.C. 2011
Geologist	Rae Troiano Brown, P.G.	8 hour HAZWOPER	6/4/2012	P.G.	S.C. 2366
Geologist	Justin Radford, P.G.	8 hour HAZWOPER	6/4/2012	P.G.	S.C. 2478
Geologist	Johanna M. Teschner, P.G.	8 hour HAZWOPER	8/20/2012	P.G.	S.C. 2576
Senior Engineer	Rohit Shetty, P.E.	8 hour HAZWOPER	8/20/2012	P.E.	S.C. 20533
NA	Accutest	SC Certification	NA	SC Certification	96038001
Driller	Terry D. Kennedy	SC Drilling Certification	NA	SC Drilling Certification	S.C. 1693B
Driller	Mike Ransier	SC Drilling Certification	NA	SC Drilling Certification	S.C. 1152A
Driller	Justin Radford	SC Drilling Certification	NA	SC Drilling Certification	S.C. 08157

Table 3A Required Training and Licenses

Terry Kennedy of Geological Resources, Inc. is responsible to ensuring that personnel participating in this project receive the proper training. All training records will be stored in the following location: Geological Resources, Inc. Corporate Files, 2301F Crown Point Executive Drive, Charlotte, NC 28227

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 Accutest
Name of Lab Director Harry Behzadi
SC DHEC Certification Number 96038001

Parameters this Lab will analyze for this project:

Soil:
BTEX, MTBE and naphthalene by Method 8260B
PAHs by Method 8270D
Lead by Method 6010C
Analyses performed by Accutest

Ground Water:
BTEX, MTBE, naphthalene, 1, 2-DCA by Method 8260B
PAHs by Method 8270D
Filtered Lead by Method 6010C
EDB by Method 8011
Analyses performed by Accutest

Full Name of the Laboratory_____
Name of Lab Director_____
SC DHEC Certification Number_____
Parameters this Lab will analyze for this project:

Please note: SC DHEC 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)

__X__US Mail ____Courier __X__Hand delivered

Other (please specify):___e-mail_____

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Field Notes	GRI	Hardcopy and electronic	Server and Library - 20 Years	Yes – Computer and GRI library
Chain of Custody	Accutest	Hardcopy and electronic - EDD	Computer backup - 10 Years	Yes - Electronic
Chain of Custody	GRI	Hardcopy and electronic	Server and Library - 20 Years	Yes – Computer and GRI library
Report	GRI	Hardcopy and electronic	Server and Library - 20 Years	Yes - Computer and GRI library
Lab Data	Accutest-Orlando	Hardcopy and electronic - EDD	Computer backup - 10 Years	Yes - Electronic
Well Construction Records	REDI	Hardcopy and electronic	Computer backup - 10 Years	Yes - Electronic

Table 4A Record Identification, Storage, and Disposal

Section B Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
QAPP Preparation	4/30/2013	5/8/13	In Progress
QAPP Approval	1 business day after submittal to DHEC	30 calender days from date received by DHEC	Assume 30 day turnaround
MW and Soil Boring Installation	10 days from receipt of approved ACCA	1 – 2 weeks after receipt of approved ACCA	
Ground Water Sampling	2 days from receipt of approved ACCA	3 days from receipt of approved ACCA	
Report Preparation	5 days from receipt of lab report	2 – 3 weeks from receipt of lab report	

Item	Start Date	End Date	Comments

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 — 6 (SB/MW-1 at 5' intervals to 20', 1 duplicate, field blank) **as shown on the attached Figure 2.**

Ground Water from monitoring wells — 1 (MW-1) **as shown on the attached Figure 2.**

From Drinking/Irrigation water wells — 2 (PW-1 and PW-2) **as shown on the attached Figure 2.**

From surface water features — _____

Other — 1 trip blank, 1 field blank & 1 duplicate

Total number of Water samples — 6

Equipment needed for sampling: Sampling equipment will include water level indicator, interface probe (if required), YSI 556 and Hanna Meters for field measurements (pH, DO, Temp., specific conductivity, turbidity), disposable polyethylene bailers, nylon string, nitrile gloves, cooler, ice, sample kits provided by the laboratory, sample data forms, drum to containerize purge water (if required).

Soil samples will be collected using a rotary auger rig and split spoon samplers.

The samples will be (check as many as apply): ___Homogenized ___Split __X__ Grab

If any of the above are circled please indicate how will it be done and the equipment needed.
Samples will all be "Grab". New nitrile gloves will be worn when collecting each soil and/or ground water sample.

Will Sampling Equipment have to be cleaned and decontaminated or is everything disposable?

Water level indicator, interface probe and YSI 556/Hanna meters are decontaminated between each sample collection. Nitrile gloves, string and bailers are disposable.

Drilling augers will be pressure washed, scrubbed (if needed) and rinsed between each soil boring/monitoring well installation. Wash/rinse water will be collected in a lined decontamination pit and later pumped into a drum for future manifested disposal.

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. Water level indicator, interface probe and YSI 556/Hanna meters will be cleaned with alconox or a phosphate free soap and tap water. Rinse water will be drummed if necessary.

Drilling augers and split spoon samplers will be pressure washed, scrubbed (if needed) and rinsed using hot and cold tap water and alconox (if needed).

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.

A rotary auger drill rig for installation of soil boring and monitoring well
Fed-Ex for shipping of samples
Hazmat Emergency Response and Remediation, Inc. – Soil and purge water disposal

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
YSI and Hanna meters	Repair @ Enviro Equipment	Field Book/Notes	Scott Ball/Hanna Kahrmann-Zadak
Water level meter	Repair @ Enviro Equipment	Field Book/Notes	Scott Ball/Hanna Kahrmann-Zadak
Interface probe	Repair @ Enviro	Field Book/Notes	Scott Ball/Hanna

	Equipment		Kahrmann-Zadak
Geoprobe/Drill Rig	Repair rig/equipment/tooling in the field	Field Book/Notes	Mike Ransier
Geoprobe/Drill Rig	Repair rig/equipment/tooling in the field	Field Book/Notes	Terry Kennedy
Geoprobe/Drill Rig	Repair rig/equipment/tooling in the field	Field Book/Notes	Justin Radford

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?*** After each sample is collected, it is placed in an ice filled cooler that is secured with the sampling personnel's company vehicle. Upon completion of sampling activities, sampling personnel sends the secured cooler and chain of custody via Fed-Ex to the laboratory. Samples are generally sent out via Fed-Ex at the end of each day's sampling event. Or, if possible, the samples/cooler are taken directly to the laboratory's service center where possession of the samples is taken by the lab. Samples requiring analyses that have short hold times are always sent out the same day the samples were collected. Even if short hold times are not a concern, collected samples are never kept in the sampler's/contractors possession for more than 24 hours.

2. ***How will the contactors cool the samples and keep the samples cool?*** Ice is placed in each cooler containing the empty sample kits prior to the start of sampling activities. The ice is chipped/cubed and typically purchased in 10 to 20 pound bags from a grocery or convenience store. The ice is checked periodically throughout the day during sampling and replenished when needed, typically 2 – 3 times a day during the summer months. Some of the cold water from the melted ice is retained in the cooler with replenished ice to retain an ice "slurry". Fresh ice is placed on the samples at the end of each sampling day prior to delivery to a laboratory service center or prior to shipping via Fed-Ex.

3. ***How will the lab determine the temperature of the samples upon receipt? Will they be using a temperature blank?*** A temperature blank should be included with each cooler of samples delivered to the laboratory. The lab will determine and record the temperature of the temperature

blank using I/R thermometer. If a temperature blank is not submitted, the surface temperature of a sample will be determined using an I/R thermometer. If the initial temperature reading is greater than 6° C, the lab will spot-check samples from four corners and center of the cooler using an I/R thermometer. If any of these temperatures are below 6° C, the lab will check the surface temperature of each sample and make note of any samples received with the 0.5° C to 6° C range. If the temperature of the samples upon receipt exceeds storage requirements, the exceedance shall be documented in laboratory records and discussed with GRI. The decision regarding the potentially affected samples shall also be documented.

4. ***Where will the samples be stored in the Lab once they are received?***

Samples are unpacked and inspected in the sample receipt area. After sample entry, samples are placed in a walk in cooler until needed for analysis. Samples requiring cold storage will be stored between 0.5° to 6°C in an assigned and identified storage location. Samples which can be stored at room temperature will be stored in an assigned and identified room temperature storage location. Sample storage locations are secured and monitored for accurate temperature control.

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.***

Chain of custody (COC) will be maintained from collection through data reporting. The COC record will be used as the primary documentation mechanism to ensure that information pertaining to the custody of each sample from field to laboratory is recorded. An example COC record is attached.

Sample possession during all sampling efforts must be traceable from the time of collection until the results are verified and reported. The sample custody procedures provide a mechanism for documentation of all information related to sample collection and handling to achieve this objective. The sample collector is responsible for the care and custody of samples until they are transferred to another person or dispatched properly under COC rules. A sample is defined as being under a person's custody if any of the following conditions exist: (1) it is in their possession, (2) it is in their view, after being in their possession, (3) it was in their possession and they have secured it, or (4) it is in a designated secure area.

All sample shipments will be accompanied by a COC record, which identifies its contents. The COC record will include the following information:

- Project name or number
- Project location

- Unique sample identification
- Date and time of sample collection
- Sample matrix (e.g., water, soil, etc.)
- Sample type (e.g., composite, grab, etc.)
- Preservatives used
- Number and type of containers used
- Analytical method to be performed
- Printed name and signature of sample collector(s)
- Custody transfer signatures and dates and times of sample transfer from the field to transporters and to the laboratory
- Bill of lading or transporter tracking number (if applicable)

All shipping containers will be secured with custody seals for transportation to the laboratory. Protective packing will be used with sample bottles to minimize the risk of breakage during transport. Shipping containers will be lined with plastic to minimize the effect of any breakage and to contain any spills. Samples that are known or suspected to be highly contaminated (based on field observations) will be packaged and shipped separately from other samples. When samples are required to be stored at a temperature that is less than or equal to 6°C, generous amounts of ice will be packed with the samples.

Sample Control is responsible for unpacking the cooler, signing the COC record, and documenting the date and time that samples arrived at the lab. Sample Control tracks the custody of the sample between receipt and entry where a unique sample ID is assigned. The condition, temperature, and appropriate preservation of samples shall be checked and documented on the COC record or alternate laboratory documentation that will be included in the laboratory report. After entry and review, the COC record is scanned into the LIMS and the original is stored with the client paperwork.

The security system used by the laboratory allows Accutest to designate the entire facility as a secure area since all exterior doors are either locked or attended. A record of sample preparation and analysis is included in the laboratory report, consisting of the analyst's initials, and date and time for all preparations and analyses performed on the sample.

Standard operating procedures (SOP) describing sample control and custody shall be maintained by the laboratory.

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:***

Parameter	SOP ID*	Method Referenced	Equipment	Comments
BTEX, MTBE and Naphthalene (soil)	MS005	8260B	Agilent 5973 or 5975, OI Analytical purge and trap system	
PAHs (soil)	MS010	8270	Agilent 5973 or 5975, Agilent 7683 Autosampler	
Lead (soil)	MET100	6010	Thermo 6000 series	
BTEX, MTBE, 1,2 – DCA, naphthalene (water)	MS005	8260B	Agilent 5973 or 5975, OI Analytical purge and trap system	
PAHs by 8270 (water)	MS010	8270	Agilent 5973 or 5975, Agilent 7683 Autosampler	
Lead (water)	MET100	6010	Thermo 6000 series	
EDB (water)	GC009	8011	Agilent 6890, Agilent 7683 Autosampler	
pH	ASTM Practice D 6771	—	YSI 556 MPS	
Dissolved Oxygen	ASTM Practice D 6771	—	YSI 556 MPS	
Conductivity	ASTM Practice D 6771	—	YSI 556 MPS	
temperature	ASTM Practice D 6771	—	YSI 556 MPS	
Turbidity	ASTM Practice D 6771	—	Hanna HI 98703 Turbidimeter	

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
MS005	MS005	Analysis of Volatile Organics by GC/MS
MS010	MS010	Analysis of Semi-Volatile Organics by GC/MS 8270SIM
GC009	GC009	Analysis Of 1,2-Dibromoethane (EDB) And 1,2-Dibromo-3-Chloropropane (DBCP) By Gas Chromatography, Electron Capture Detector SW-846 8011
GC109	GC019	Analysis Of Dissolved Gases By Gas Chromatography, Flame Ionization Detector
MET100	MET100	Metals By Inductively Coupled Plasma

Table 8A SOP Abbreviation Key

2. Identify procedures to follow when failures occur, identify the individual responsible for corrective action and appropriate documentation:

Failure	Response	Documented Where?	Individual Responsible
CCV or ICV outside of control Limits	Perform maintenance, recalibrate	Run Log	Bench Analyst
MS/MSD outside of control limits	Investigate matrix effect, reference Blank Spike	Run Log	Bench Analyst
Blank Spike outside of control limits	Investigate cause of failure, perform maintenance if necessary, re-analyze affected samples	Run Log and Maintenance Log	Bench Analyst and section supervisor
Tune outside of control criteria	Perform detector maintenance, check for leaks	Run Log	Bench Analyst
pH meter – YSI 556	Calibrate, clean, replace battery	Field Log Book	Scott Ball/Hanna Kahrmann-Zaadak
DO Meter – YSI 556	Calibrate, clean, replace battery	Field Log Book	Scott Ball/Hanna Kahrmann-Zaadak
Temperature meter – YSI 556	Calibrate, clean, replace battery	Field Log Book	Scott Ball/Hanna Kahrmann-Zaadak
Conductivity meter – YSI 556	Calibrate, clean, replace battery	Field Log Book	Scott Ball/Hanna Kahrmann-Zaadak
Hanna HI 98703 Turbidimeter	Calibrate, clean, replace battery	Field Log Book	Scott Ball/Hanna Kahrmann-Zaadak

Table 9A Corrective Action Procedures

3. Identify sample disposal procedures.

Analysis	Matrix	Schedule for disposal	Method for disposal	Comments
All	Water Non-hazardous (little sediment and/or color & no chemical odor)	30 days after final reports released	Water siphoned off to a holding tank, which is pumped out by licensed waste handling company	
All	Water Non-Hazardous (with chemical odor or containing a large amount of sediment)	30 days after final reports released	Water and siphoned off to a holding tank, which is pumped out by licensed waste handling company	
All	Water Hazardous Waste	30 days after final reports released	Hazardous waste disposal facility picks	

			up and disposes of samples by appropriate waste stream	
All	Water Non-hazardous (little sediment and/or color & no chemical odor)	30 days after final reports released	Water siphoned off to a holding tank, which is pumped out by licensed waste handling company	
All	Water Non-Hazardous (with chemical odor or containing a large amount of sediment)	30 days after final reports released	Water siphoned off to a holding tank, which is pumped out by licensed waste handling company	
All	Water Hazardous Waste	30 days after final reports released	Hazardous waste disposal facility picks up and disposes of samples by appropriate waste stream	
All	Water Non-hazardous (little sediment and/or color & no chemical odor)	30 days after final reports released	Water siphoned off to a holding tank, which is pumped out by licensed waste handling company	

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).

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
YSI 556MPS Hanna HI 98703	GRI1	Calibration	Prior to each sampling event	Batteries, calibration solutions, replacement DO membranes – GRI equipment room	Scott Ball/Hanna Kahrmann-Zadak
Water Level Indicator	GRI1	Replace batteries	As needed	Batteries – GRI equipment room	Scott Ball/Hanna Kahrmann-Zadak
Interface Probe	GRI1	Replace Batteries	As needed	Batteries – GRI equipment room	Scott Ball/Hanna Kahrmann-Zadak
TOC Analyzer	Shimadzu, multiple units	Check catalyst, air and hydrogen lines	As warranted by passing instrument QC and batch QC	As recommended in operator's manual, Accutest Laboratories Southeast, Inc. Orlando FL	Bench analyst(s)
GC	Agilent 6890, OI analytical purge and trap system , or Agilent 7683 autosampler, multiple units	Leak check, gas pressure check, septa replacement	As warranted by passing instrument QC and batch QC	As recommended in operator's manual, Accutest Laboratories Southeast, Inc. Orlando FL	Bench analyst(s)
GC/MS	Agilent 5973 or 5975, OI Analytical purge and trap system , or Agilent 7683 autosampler, multiple units	Leak check, gas pressure check, detector cleaning, septa replacement	As warranted by passing instrument QC and batch QC	As recommended in operator's manual, Accutest Laboratories Southeast, Inc. Orlando FL	Bench analyst(s)
IC	Dionex IC2000 and 2100	Pump, eluent level, seals and guard column	As warranted by passing instrument QC and batch QC	As recommended in operator's manual, Accutest Laboratories Southeast, Inc. Orlando FL	Bench analyst(s)
ICP	Thermo 6000 Series, Multiple units	Check nebulizer, lines for leaks, gas supply	As warranted by passing instrument QC and batch QC	As recommended in operator's manual, Accutest Laboratories Southeast, Inc. Orlando FL	Bench analyst(s)

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
YSI 556MPS Hanna HI 98703	Physical	Calibrate/Repair as needed	Scott Ball/Hanna Kahrmann-Zadak	Return to manufacturer if needed
Water Level Indicator	Physical	Repair as needed	Scott Ball/Hanna Kahrmann-Zadak	Return to manufacturer if needed
Interface probe	Physical	Repair as needed	Scott Ball/Hanna Kahrmann-Zadak	Return to manufacturer if needed
TOC analyzer (Various)	Daily CCV passes method-defined criteria	Daily	Bench analysts	Perform maintenance, recalibrate if necessary
GC (Various)	Daily CCV passes method-defined criteria	Daily	Bench analysts	Perform maintenance, recalibrate if necessary
GC/MS (Various)	Tune check pass control before every analytical shift, then daily CCV passes method-defined criteria	Daily	Bench analysts	Perform maintenance, recalibrate if necessary
IC (Various)	Daily CCV passes method-defined criteria	Daily	Bench analysts	Perform maintenance, recalibrate if necessary
ICP (Various)	Daily CCV passes method-defined criteria	Daily	Bench analysts	Perform maintenance, recalibrate if necessary

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*
YSI 556MPS Hanna HI 98703	Manufacturer's Directions	Prior to the sampling event	Within limits established by manufacturer	Send to manufacturer or Enviro-Equipment	Send to manufacturer or Enviro-Equipment	Send to manufacturer or Enviro-Equipment
TOC Analyzer	Calibrate with series of standards as described in SW-846 9060A, external standard calibration procedure	Initial calibration performed as necessary, and verified daily and every 10 samples (CCV)	As described in SW-846 9060A method.	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Bench Analyst	GN215
GC	Calibrate with series of standards as described in SW-846 8011, external standard calibration procedure	Initial calibration performed as necessary, and verified daily and every 10 samples (CCV)	As described in SW-846 8011method and RSK 175	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Bench Analyst	GC009, GC019
GC/MS	Calibrate with series of standards as described in SW-846 8260B, internal standard calibration procedure	Initial calibration performed as necessary, and verified daily (CCV)	As described in SW-846 8260B method.	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Bench Analyst	MS005
IC	Calibrate with series of standards as described in SW-846 9056A, external standard calibration procedure	Initial calibration performed as necessary, and verified daily and every 10 samples (CCV)	As described in SW-846 9056A method.	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Bench Analyst	GN228

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
ICP	Calibrate with series of standards as described in SW-846 6010C, external standard calibration procedure	Initial calibration performed as necessary, and verified daily and every 10 samples(CCV)	As described in SW-846 6010Cmethod.	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Bench Analyst	Met100

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.
Sample Containers	Various	Purchased pre-cleaned to meet EPA specifications	Stored at room temperature	Randy Shields, Accutest Laboratories, SE
Sample Container Preservatives	Various	Each lot of preservative purchased is analyzed for contamination before use.	Stored at room temperature	Randy Shields, Accutest Laboratories, SE
Calibration Standards	Various	Within expiration date as specified by method	Standard refrigators according to manufacturer's instructions	Bench Analyst
Analytical columns	Restek	In good condition	In the lab	Bench Analyst
Teflon Bailers	EON	Sealed in unbroken plastic	GRI Warehouse in cardboard boxes	Scott Ball
Nitrile Gloves	EON	Sealed in unbroken dispenser boxes	GRI Warehouse in cardboard boxes	Scott Ball

Nylon String	EON	Sealed in plastic	GRI Warehouse in cardboard boxes	Scott Ball

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
Computer database and GRI library	Historical ground water elevation and quality data	For showing contaminant concentration and ground water flow trends	
SCDHEC FOI	Historical ground water elevation and quality data	For showing contaminant concentration and ground water flow trends	
USGS	Topographic map	For showing site location	

Table 15A Non-Direct Measurements

4. Identify key resources/support facilities needed.

B10 Data Management

1. Describe the data management scheme from field to final use and storage.
   GRI orders lab kit from Accutest
   Accutest ships kit to GRI office (if done directly from Orlando facility) or courier delivers kit to GRI office from service center

Field personnel collects lab samples and returns lab samples and field notes to office.
Accutest courier picks up samples and signs COC. (Alternately - GRI ships coolers to Accutest Southeast)
Samples are analyzed as per the COC and SOPs.
Lab report is emailed to Project manager. Data is checked if usable is populated into tables for report deliverable.
Data is stored at lab and in GRI office (electronic and hard copies).

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?

   Laboratory - CoC are scanned into PDF upon log-in, subsequent changes in tests ordered (if any) are made via formal request. Computer records are incrementally backed up through LAN every 20 minutes and fully backed up once a week.

   Field Staff - Original field notes are reviewed by a senior geologist and project manager upon return of field staff to the GRI office then scanned into a PDF file and saved to working files stored at GRI.

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.

   Every piece of analytical data is reviewed once by bench analyst upon initial data processing and undergoes secondary review by section supervisor or senior analyst prior to release to the clients. Third level review performed by QA staff at 10-15% of data.

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).

   Raw analytical data is incrementally backed up; full automatic backup occurs once a week and tapes are produced in duplicates. One copy stored off-site. Bench run logs, CoC and other hand-written records are scanned into PDF files; sample reports are converted into PDF files and stored on local servers. Logbooks, Certificates of Analysis, etc. are secured on-site in lockable storage.

   As with field notes, GRI reports are converted into PDF files and stored on the GRI server. Hard copies of reports are stored in the GRI library.

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.* **The samples will be collected by the on-site supervisor – Scott Ball** *Will this person have the authority to stop work if severe problems are seen?* **Yes The on-site supervisor's work will be overseen by Terry D. Kennedy or John M. Brown.**
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?* **1. GRI's Contract QA Manager (John M. Brown. P.G.) will review the QC Data Summary associated with each Accutest Report to determine that all QA/QC requirements of the laboratory's SOP are met. 2. Accutest Laboratories Southeast participates in the semiannual analyses of PT samples in order to maintain primary state certification and for the benefit of other states' certification program. External companies that conduct routine audits for Accutest laboratories, Inc. include:**

   Laboratory Accreditation Bureau, Inc. for DoD ELAP program (DOD ELAP status and ISO 17025)
   Environmental Standards, Inc. for assorted private clients.
   State of Florida Department of Health (NELAC)
   State of North Carolina DWQ

   Accutest Laboratories Inc. maintains corporate purchasing contract with ERA, Waters Company, and results are on file with DHEC, lab certification group *When or how often are these done?* **1. Upon receipt of each laboratory report. 2. Annually or Semi-annually** *Who will the results be given to and who has the ability to stop work if problems are severe?* **1. GRI's Contract QA Manager, Mr. John M. Brown. 2. Accutest Lab Director.**

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).

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

July 1, 2011

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: Carolina Country Convenience — GRI Proposal No. 13-227

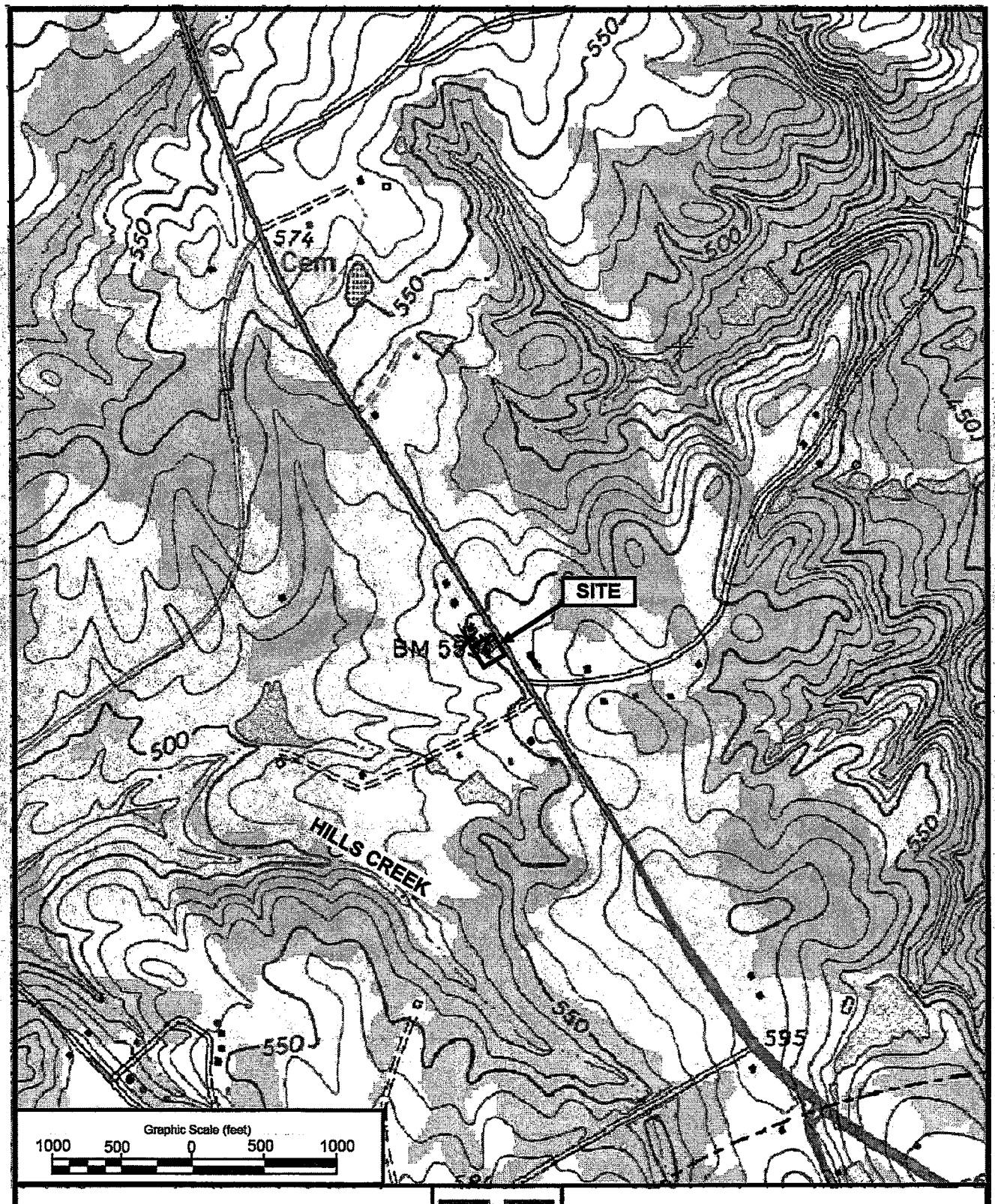
UST Permit #: 02261 **Cost Agreement #:**

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		x	$525.00		$0.00
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		x	$575.00		$0.00
B. Personnel Pre-Drilling site visit	1	x	$290.00		$290.00
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) (10' over standard 25')	10	feet x	$38.00		$380.00
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	2	samples x	$30.00		$60.00
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	2	samples x	$100.00		$200.00
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*		x	$300.00		$0.00
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		tons x	$72.50		$0.00
D. Drilling fluids		gallons x	$0.80		$0.00
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)	1	x	$3,760.00		$3,760.00
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	$4,690.00		$703.50
TOTAL					$5,393.50

*The appropriate mobilization cost can be added to complete these tasks, as necessary



USGS TOPOGRAPHIC QUADRANGLE MAP
PAGELAND, SOUTH CAROLINA

DATE: 1993
SCALE: 1 INCH = 1000 FEET
PROJECT NO. 73098106

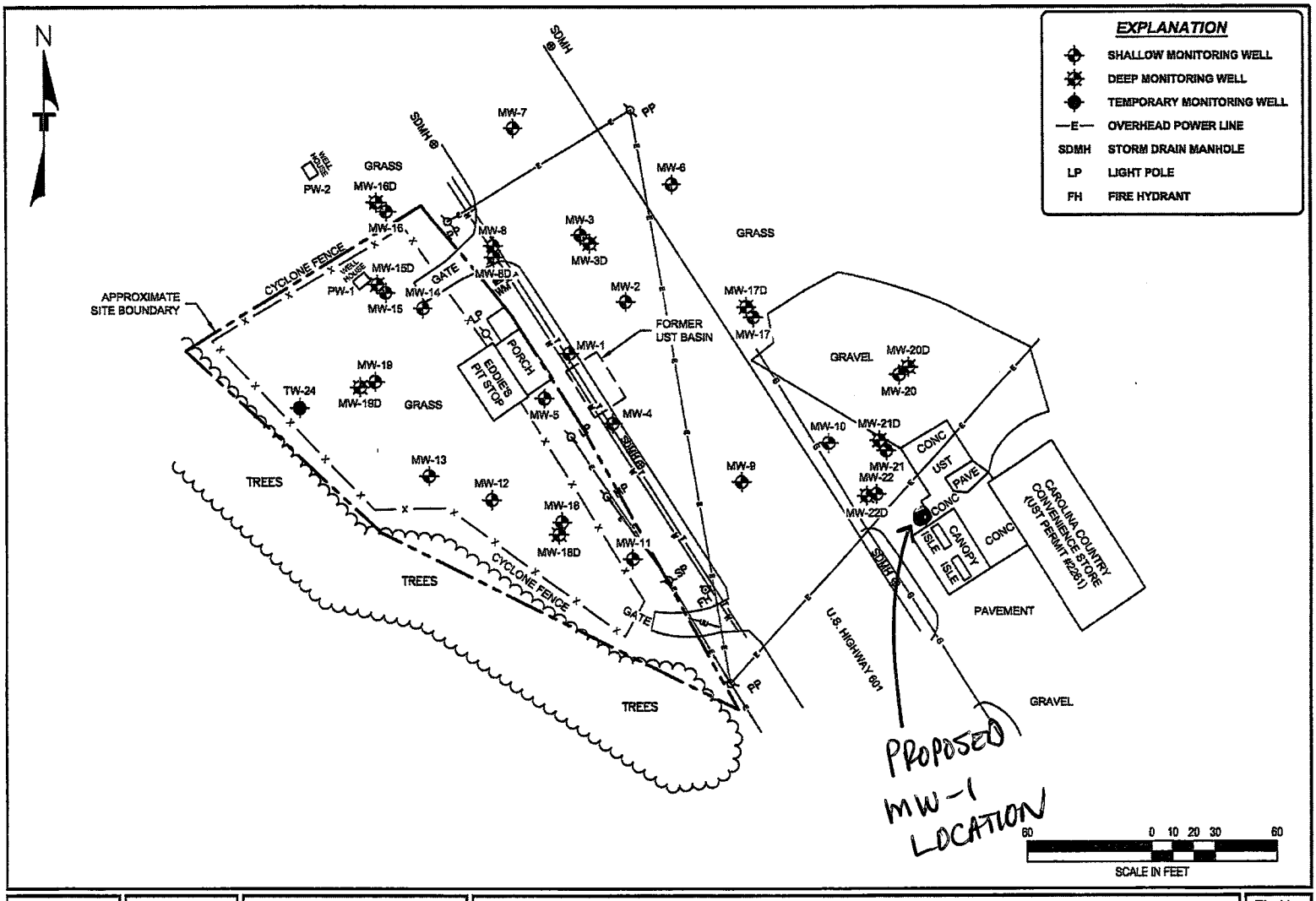
N

Terracon

SITE LOCATION MAP
EDDIE'S PITT STOP
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA

FIGURE 1: TOPOGRAPHIC MAP

* WATER SUPPLY WELLS



Project Mngr: RWN	Project No.: 73098106	Terracon Consulting Engineers and Scientists	SITE MAP WITH UTILITIES
Drawn By: PTK	Scale: AS SHOWN	521 CLEMSON ROAD COLUMBIA, SC 29229	EDDIE'S PIT STOP - SCDOT
Checked By: RWN	File No.: 73098106	PH. (803) 741-9000 FAX. (803) 741-9500	ROUTE 2, US HIGHWAY 601 NORTH
Approved By: PMH	Date: AUGUST 2012		PAGELAND, SOUTH CAROLINA
			UST PERMIT #18871
			Fig No. 3

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # PAGE_____OF_____

Accutest Quote # SKIFF#

Client / Reporting Information

Company Name
Address
City State Zip
Project Contact E-mail
Phone#
Sampler(s) Name(s) (Printed)

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

ACCUTEST
2828-C QUEEN CITY DR
CLT NC 28203

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1		2	3		4
Relinquished by:	**Date Time:**	**Received By:**	**Relinquished by:**	**Date Time:**	**Received By:**
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

SCDHEC UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR LEAD INFORMATION SHEET

1. CONTRACTOR OF CHOICE

As the UST Owner/Operator of: UST Permit # 02261

Site Name: CAROLINA COUNTRY CONVENIENCE

I would like to use the contractor or person(s)* listed below and request that they represent me for (check one):

- IGWA, Tier I, Tier II Assessment _____
- Other (please specify) _____
- All future assessments scopes** X

Name of Contractor/Person(s): **Geological Resources, Inc.**
Address: 2301-F Crown Point Executive Drive
Charlotte, North Carolina 28227
Telephone Number: **(704) 845-4010 / Toll Free 1-888-870-4133**

Note: Site rehabilitation activities must be performed by a SCDHEC Certified Site Rehabilitation Contractor in accordance with R.61-98

*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 facilities 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

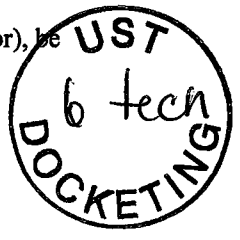
Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above?
Yes _____ No X (please initial) MBW

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, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancée.

3. PAYMENT

You can pay the contractor and, upon submittal of the cancelled check (or notarized statement from the contractor), be compensated from the SUPERB Account, or have payment issued directly from us to the contractor:



I request that payment be made to me after I have paid the contractor:
Yes _____ No X (please initial) MBW

I request that payment be made directly to the contractor: Yes X No _____ (please initial) MBW
Note: All costs must receive prior financial approval from the Department regardless of payment option.

Underground Storage Tank Owner/Operator

Signature MBW

Printed Name Michael b Wallace

Date 5-31-13

Address 4325 Clark Taylor Rd.
Marshville NC. 28103

Phone Numbers & Email (843) 672-8913 c# / mbwallace6le gmail.com

GEOLOGICAL RESOURCES, INC. SERVICES AGREEMENT
(SCDHEC SUPERB WORK ONLY)

Parties: Geological Resources, Inc. is hereinafter referred to as "GRI"

CAROLINA COUNTRY CONVENIENCE is hereinafter referred to as "CLIENT"

GRI agrees to the following:

- Conduct site investigations as requested by the South Carolina Department of Health and Environmental Control (SCDHEC);
- Perform all work in general accordance with SCDHEC guidelines;
- Obtain pre-approval of all work from SCDHEC prior to implementation;
- Notify the CLIENT in advance of on-site activities;
- Take customary and reasonable precautions to avoid damages to underground utilities and other underground objects;
- Provide the CLIENT with copies of all SCDHEC required project proposals, reports and invoices;
- Submit copies of all required project proposals, reports and invoices to SCDHEC;
- **Invoice the SCDHEC for all SUPERB project related activities;**
- **Indemnify and hold harmless CLIENT, its directors, owners, officers, agents, contractors, and employees against any and all claims, demands or causes of action, and all costs, losses, liabilities, expenses and judgments incurred in connection therewith, including attorney's fees and court costs, brought by any person or third party based upon, in connection with, resulting from or arising out of GRI's gross negligence, fraud or willful misconduct in the performance of this Agreement.**

CLIENT agrees to the following:

- Remain in compliance with SCDHEC SUPERB qualification requirements;
- Inform GRI of the presence of any known surface and/or underground hazardous conditions, wastes or substances, including man-made objects, relative to any field tests or boring locations;
- Allow GRI and its subcontractors reasonable access to the site(s);
- **Review and sign SUPERB project invoices prepared by GRI for work performed, as required by SCDHEC, within three (3) days of receipt;**
- **Payment by SCDHEC will be to GRI for work performed by GRI;**
- **Indemnify and hold harmless GRI, its directors, owners, officers, agents, contractors, and employees against any and all claims, demands or causes of action, and all costs, losses, liabilities, expenses and judgments incurred in connection therewith, including attorney's fees and court costs, brought by any of CLIENTS employees or representatives or any third party based upon, in connection with, resulting from or arising out of CLIENT's or GRI's actions or inactions, other than the gross negligence or willful misconduct of GRI under this Agreement.**

This contract can be terminated by either party with thirty (30) days written notice to the other party.

Agreed to by:

CLIENT — Date 5-31-13

Lisa Kennedy

GRI Representative — Date 5/31/13

D H E C
PROMOTE PROTECT PROSPER

Hornosky, Minda <hornosms@dhec.sc.gov>

RE: UST Permit #02261

1 message

Scott Ball <wsb@geologicalresourcesinc.com> Tue, Jun 18, 2013 at 11:20 AM
To: "Hornosky, Minda" <hornosms@dhec.sc.gov>

Minda

I think I got all of the corrections.

Thanks

From: Hornosky, Minda [mailto:hornosms@dhec.sc.gov]
Sent: Tuesday, June 18, 2013 9:30 AM
To: Scott Ball
Subject: UST Permit #02261

Scott,

I have finished reviewing the QAPP for the IGWA on this site. I need three changes made:

page 14, Section A6, line 9, first word: please change "**installation**" to "**developed**"

Page 17, Parameters, Ground Water: please change "**Filtered**" lead to "**Total**" lead (I know the QAPP says filtered. This is my call.)

Page 19, Section B2, Soil: should be **1 soil sample** going to the lab for analyis (I know 6 are collected and screened, but the sample with the highest screening value is above the water table is submitted for analysis. If all of the soil samples are within 10% of each other, the deepest sample above the water table should be submitted for analysis. IF groundwater si not encountered above 50', the sample with the highest reading should be submitted.

To expedite the approval process, you may e-mail the pages that required changes to me.

Please send them to me by Friday, June 21. If you need to re-submit the QAPP Addendum, just let me know. If it would requrie a due date change, please request a due date extension.

Please let me know if you need more information. Thank you,

Minda

#02261 6-18-13 QAPP Revisions.pdf
77K

The release for the site was reported on October 11, 2012. GRI has no information regarding any previous assessment work conducted at the site. The next proposed scope of work for the site is to conduct an IGWA.

Please answer the following: Does this project fall under UST or Brownfields area?

UST

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).***

   Initial Ground Water Assessment (IGWA). SOW will include the installation of one monitoring well as close as possible to the former gasoline UST area and one monitoring well in the area of the product dispensers. **The approximate monitoring well location is shown on the attached Figure 2.** Soil samples will be collected for screening at five-foot intervals during advancement of each monitoring well. The soil sample from the interval exhibiting the highest field-screening concentration will be submitted for laboratory analyses. The monitoring well will be installed to an approximate total depth of 35 feet and completed with a 10-foot screened interval set to intersect the water table. Final monitoring well depth and screen interval will be determined based on field observations. A ground water sample will be collected from the well approximately 24 hours after developed or when the ground water returns to pre-drilling conditions. The soil and ground water samples collected will be submitted for laboratory analyses in accordance with the guidelines set forth in the Initial Ground Water Assessment Document. A 1,000-foot radius receptor survey will be completed in order to identify any potential receptors (e.g., utilities, surface waters, wetlands, water supply wells, irrigation wells, etc.) Any water supply wells located within a 250-foot radius of the site will be sampled (PW-1 and PW-2). A site map showing all site features, all utilities located within 250 of the site, location of the UST system and the new monitoring well (MW-1) will be provided.

2. ***The work will begin within*** 10 business days ***after cost approval and the assessment activities should be complete by*** 30 days after approval of cost agreement.

Parameters this Lab will analyze for this project:

Soil:
BTEX, MTBE and naphthalene by Method 8260B
PAHs by Method 8270D
Lead by Method 6010C
Analyses performed by Accutest

Ground Water:
BTEX, MTBE, naphthalene, 1, 2-DCA by Method 8260B
PAHs by Method 8270D
Total Lead by Method 6010C
EDB by Method 8011
Analyses performed by Accutest

Full Name of the Laboratory_____
Name of Lab Director_____
SC DHEC Certification Number_____
Parameters this Lab will analyze for this project:

Please note: SC DHEC 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)

__X__US Mail ____Courier __X__Hand delivered

Other (please specify):____e-mail_____

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival

Item	Start Date	End Date	Comments

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 — 3 (SB/MW-1 at 5' intervals to 20', 1 duplicate, field blank) **as shown on the attached Figure 2.**

Ground Water from monitoring wells — 1 (MW-1) **as shown on the attached Figure 2.**

From Drinking/Irrigation water wells — 2 (PW-1 and PW-2) **as shown on the attached Figure 2.**

From surface water features — _____

Other — 1 trip blank, 1 field blank & 1 duplicate

Total number of Water samples — 6

Equipment needed for sampling: Sampling equipment will include water level indicator, interface probe (if required), YSI 556 and Hanna Meters for field measurements (pH, DO, Temp., specific conductivity, turbidity), disposable polyethylene bailers, nylon string, nitrile gloves, cooler, ice, sample kits provided by the laboratory, sample data forms, drum to containerize purge water (if required).

Soil samples will be collected using a rotary auger rig and split spoon samplers.

The samples will be (check as many as apply): ___Homogenized ___Split _X_ Grab

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MICHAEL WALLACE
CAROINA COUNTRY LLC
1908 HWY 601 N
PAGELAND SC 29728-8292

JUL 09 2013

UST 84tech DOCKETING

Re: Initial Groundwater Assessment Directive
Carolina Country Convenience, 1908 Hwy 601 N, Pageland, SC
UST Permit #02261; Cost Agreement #46257; MWA #UMW-25148
Release # 2 Reported October 11, 2012
Monitoring Report received January 4, 2012
Site Specific QAPP Contractor Addendum revisions received June 18, 2013
Chesterfield County

Dear Mr. Wallace:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report and site specific Quality Assurance Project Plan (QAPP) Contractor Addendum. The report indicates that chemicals of concern (CoC) are present in the groundwater at concentrations that exceed risk-based screening levels. To determine what risk the chemicals may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of an Initial Groundwater Assessment (IGWA) as outlined in the UST QAPP is necessary. The IGWA should be conducted in accordance with the UST QAPP and must be conducted in compliance with all applicable regulations and the submitted site specific QAPP Contractor Addendum. A copy of the UST QAPP is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm. All shallow wells are to be installed with screen intervals that bracket the water table. Groundwater samples will include duplicate samples, field and trip blanks. The IGWA well should be installed as proposed in the submitted QAPP.

According to Division records, the release at the facility was reported to the Agency on October 11, 2012. In accordance with Section 44-2-40(D) of the SUPERB Act, you are responsible for the first $25,000 of site rehabilitation costs. To ensure that expenditures made toward rehabilitation apply to the $25,000 deductible, the Division has pre-approved costs for implementing the IGWA and assigned a cost agreement number for tracking. By law, the SUPERB Account cannot compensate any costs that are not pre-approved.

The Division has pre-approved a total of $4,800.00 for implementation of the IGWA and sampling the 2 nearby water supply wells. The total includes costs for completion of up to 35 feet of permanent monitoring well footage. A groundwater sample should be collected for each water supply well within 250 feet of the facility and analyzed for BTEX, naphthalene, 8 oxygenates, 1,2-DCA, ethanol, and EDB. Additional monitoring well footage can be billed at the SUPERB allowable rate of $38 per foot as well

as collection and laboratory analyses of groundwater from water supply wells provided that the cost is pre-approved by the Division. Upon receipt of a report of findings, and a completed IGWA invoice with all necessary supporting documentation, up to $4,800.00 will be applied toward the $25,000 deductible. **The report, contractor checklist, and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence.**

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Division by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

Implementation of the IGWA may proceed immediately upon receipt of this correspondence. Approval to install one permanent monitoring well and for the site specific QAPP contractor addendum is enclosed. Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Also note that only EPA Method 8260B will be accepted for analysis of volatile organic hydrocarbons. Any site rehabilitation activity associated with the UST release must be performed by an Agency-certified site rehabilitation contractor as required by R.61-98.

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

On all correspondence regarding this site, please reference UST Permit #02261. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-7542, fax me at (803) 898-0673, or e-mail me at hornosms@dhec.sc.gov.

Sincerely,

Minda Hornosky, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)
Signed Site Specific QAPP Contractor Addendum Title and Approval Page

cc: Geological Resources, Inc., 2301 Crown Point Executive Drive, Suite F, Charlotte, NC 28227 (with enc).
Technical File (with enc.)

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 Form

Approval is hereby granted to:	Geological Resources, Inc.
On behalf of:	Carolina Country LLC
UST Permit #:	02261
Facility:	Carolina Country Convenience 1908 Hey 601 N., Pageland, SC
County:	Chesterfield

This approval is for the installation of one shallow permanent groundwater monitoring well. The monitoring well is to be installed in the approved location 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 Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. 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 Minda Hornosky (tel: 803 898-7542 or e-mail: hornosms@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. Approval from the Agency 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: June 28, 2013 **Approval #: UMW-25148**

Minda Hornosky, Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
Carolina Country Convenience – UST Permit No. 02261

1908 Highway 601 North, Pageland, Chesterfield County, South Carolina

Prepared by: W. Scott Ball

Geological Resources, Inc.
S.C. Site Rehabilitation Contractor #74

Date: 5/8/13

Geological Resources. Inc.

Approvals

Minda Hornosky SC DHEC Project Manager	Signature	Date 6/18/13
John M. Brown, PG - GRI Contractor QA Manager	John M Brown	Date 05/15/13
Scott Ball - GRI Site Rehabilitation Contractor	Scott Ball	Date 5/15/2013
Harry Behzadi – Accutest Laboratories Laboratory Director	Signature	Date 5/10/13

Approved Cost Agreement 46257

Facility: 02261 CAROLINA COUNTRY CONVENIENCE
HORNOSMS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		B	PERSONNEL	1.0000	290.00	290.00
09 WELL INSTALLATION						
		B	WATER TABLE (DRILLED)	10.0000	38.00	380.00
10 SAMPLE COLLECTION						
		C	WATER SUPPLY	2.0000	30.00	60.00
11 ANALYSES						
	GW GROUNDWATER	A1	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	2.0000	100.00	200.00
		F	EDB	2.0000	55.00	110.00
21 INITIAL GROUNDWATER ASSESSMENT						
			IGWA	1.0000	3,760.00	3,760.00
				Total Amount		4,800.00

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: Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY ~~Clarendon~~ CHESTERFIELD
Name: See Above
Street Address:
City: Zip:
Latitude: 34 46 04 Longitude: 80 24 23

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
silt/clay	4	4
Mud stone	31	35
# 02261 MW-1		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 35 ft. Date Started: 8/8/13 Date Completed: 8/8/13

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 25 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface 25 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 10
Set Between: 25 ft. and 35 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 22 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 23 ft. to 35 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 21 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier **CERT. NO.:** 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Michael Ransier (Well Driller) Date: 8/12/13

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

UST DOCKETING 9/4/13

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

UST
OCT 0 4 2013
PROGRAM

Geological Resources, Inc.

UST
10 tech
DOCKETING

October 2, 2013

Ms. Minda Hornosky
SCDHEC-Underground Storage Tank Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Initial Ground Water Assessment Report
Carolina Country Convenience
1908 Highway 601 North
Pageland, Chesterfield County, SC
UST Permit No. 02261

Dear Ms. Hornosky,

Please find enclosed the referenced report for the above mentioned site. If you have any questions, please do not hesitate to contact Scott Ball at (704) 845-4010.

Sincerely,
Geological Resources, Inc.

J Donnelly
Jackie Donnelly
Project Coordinator

Enclosure

cc: Mr. Mike Wallace, Carolina Country, LLC

file

2301 Crown Point Executive Drive Suite F Charlotte, NC 28227
Phone (704) 845-4010 / (888) 870-4133 Fax: (704) 845-4012

INITIAL GROUND WATER ASSESSMENT REPORT

Facility Name: Carolina Country Convenience

Facility Address: 1908 Highway 601 North, Pageland, SC 29728

Facility Telephone Number: (843) 672-5527

UST Permit Number: 02261

UST Owner and Operator's Name: Carolina Country, LLC

Address: 1908 Highway 601 North, Pageland, SC 29728

Phone Number: (843) 672-5527

Property Owner's Name: Michael Wallace

Address: 1908 Highway 601 North, Pageland, SC 29728

Phone Number: (843) 672-5527

Contractor: Geological Resources, Inc. Cert. #: 74

Address: 2301-F Crownpoint Executive Drive, Charlotte, NC 28227

Phone Number: (704) 845-4010

Well Driller: REDI Cert. #: 1152A

Address: 1 Piney Point, Whispering Pines, NC 28327

Phone Number: (910) 690-6688

Analytical Laboratory: Accutest Cert. #: 96038001

Address: 4405 Vineland Road, Suite C-15, Orlando, FL 32811

Phone Number: (407) 425-6700

Receptor and Site Data
Please place a check in the appropriate answer block for each question:

Receptor Survey Questions	No	Yes*
Is there a drinking water supply well (public or **private**) or surface water intake within 1,000 feet of the UST?		X
Are irrigation or other non-drinking water wells located within 1,000 feet of the UST?		X
Are there other potential receptors (i.e. utilities, surface waters, wetlands) less than 500 feet from the UST?	X	

If "yes" provide additional information:

One water supply well (PW-1) is located at the Eddies Pit Stop facility located across Highway 601 North to the east from the subject site and approximately 280 feet east of the source area. One water supply well (PW-2) is located at 2003 Highway 601 North, Pageland, SC and approximately 340 feet northeast of the source area. The property owner where PW-2 was located indicated that he uses municipal water for a drinking water source. A municipal water meter was noted on the property where PW-1 was located. No one was available to interview with regards to the status of PW-1. PW-1 was also noted to be inside a locked, fenced area and could not be accessed.

Were any water wells within a 250-foot radius sampled? ____ Yes X No

Is there a public water supply line in the area? X Yes ____ No

Is the current use of the facility and surrounding properties commercial, residential, agricultural or industrial?

Site: Commercial Adjacent Properties: Commercial/Residential/Wooded

Soil and Boring/Monitoring Well Data

Primary Soil Type: Silt Underlain by Bedrock (Meta-Argillite)

Well Installation Method and Date: Air Rotary 08/08/13 – Bedrock aquifer encountered in fractures of meta-mudstone

Development Method: Hand Bailing

Soil Sample Obtained at: 10 feet

Soil Analytical Data (mg/kg)

Boring #: 02261-MW-1 (10')

Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE
0.0045 J	0.0072 J	0.0045 J	0.0288	0.0035 J	0.0141

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Lead
<0.023	<0.023	<0.028	<0.023	<0.023	<0.143	39.5

Boring #: 02261-DUPLICATE

Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE
0.0024 J	0.0066	0.0085	0.0529	0.0027 J	0.0116

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Lead
<0.020	<0.020	<0.024	<0.020	<0.020	<0.104	34.0

Boring #: 02261-FIELD BLANK

Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE
<0.00091	<0.00091	<0.0010	<0.0028	<0.0018	<0.00091

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Lead
<0.017	<0.017	<0.020	<0.017	<0.017	<0.088	<0.93

TRIP BLANK

Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE
<0.0010	<0.0010	<0.0011	<0.0031	<0.0020	<0.0010

Ground Water Data

Depth to Ground Water: 12.39 feet (Bedrock Aquifer)

Well Purging/Sampling Method: 7.50 gallons purged using disposable polyethylene bailer

Date Sampled: 08/09/13

Free Product Thickness: N/A

Equilibrated Values

Temperature (C°): 22.10 pH (s.u.): 4.78

Dissolved Oxygen (mg/l): 5.38 Specific Conductance (µmhos/cm): 67

Turbidity (NTU): >1,000

Ground Water Analytical Data (µg/l)

Well #: 02261-MW-1

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
19,000	**7,150**	**1,700**	8,910	**2,360**	**469 J**	**794**	**104**

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Lead
<0.038	<0.038	<0.038	<0.038	<0.038	<0.190	7.9

Well #: 02261-PW-2

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
1.0	0.28 J	<0.29	<0.50	<0.21	<1.0	<0.22	<0.0093

Well #: 02261-DUPLICATE (MW-1)

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
19,700	**7,910**	**1,710**	**9,110**	**2,440**	**494 J**	**820**	**107**

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Lead
<0.038	<0.038	<0.038	<0.038	<0.038	<0.190	12.2

Well #: 02261-FIELD BLANK

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
<0.21	0.26 J	<0.29	<0.50	<0.21	<1.0	<0.22	<0.0094

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Lead
<0.038	<0.038	<0.038	<0.038	<0.038	<0.190	<5.0

Well #: TRIP BLANK

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	N/A

Appendices

Appendix A: Well Construction Record and Subsurface Log
Appendix B: Ground Water Sampling Data Sheet
Appendix C: Laboratory Analytical Report
Appendix D: Topographic Map
Appendix E: Site Base Map
Appendix F: Disposal Manifest
Appendix G: Contractor Checklist

Report Completed By: _____ Contractor Cert. #: 74

Date: 10/2/13

TERRY D. KENNEDY REGISTERED NO 2011 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

APPENDIX A
Well Construction Record and Subsurface Log

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: Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY ~~Clarendon~~ CHESTERFIELD
Name: See Above
Street Address:
City: Zip:
Latitude: 34 46 04 Longitude: 80 24 23

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
silt/clay	4	4
Mud stone	31	35
# 02261 MW-1		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 35 ft. Date Started: 8/8/13 Date Completed: 8/8/13

10. CASING: ☑ Threaded ☐ Welded
Diam.: ____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 25 ft. depth
____ in. to ____ ft. depth
Height: Above /Below Surface 25 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 10
Set Between: 25 ft. and 35 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 22 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 23 ft. to 35 ft.
Effective size medium Uniformity Coefficient ____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0 ft. to 21 ft.

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

18. PUMP: Date Installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Michael Ransier (Well Driller) Date: 8/12/13

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

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

Geological Resources, Inc.
2301-F Crown Point Executive Drive
Charlotte, NC 28227

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, South Carolina		
Boring Number	02261-MW-1	Date Drilled	08/08/13
Sample Method	Grab	Drilling Method	Air Rotary
Completion Deta	SC Type III Minitoring Well		
Driller	Bryan Vest	Log By	Scott Ball

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 12' Brown/tan SILT and weathered meta-argillite
2						
4						
6						
8						
10			MW-1 (10')	10'		
12						12' - 35' Brown meta-mudstone
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						Well set at 35 ft.

APPENDIX B
Ground Water Sampling Data Sheet

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/09/13
Field Personnel: MDS
General Weather Conditions: Mostly sunny Humid
Ambient Air Temperature: 88 F

Quality Assurance

pH Meter serial no. _____
Conductivity Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # MW-1
Well Diameter (D): 2" 0.167 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:	0	feet
Depth to Ground Water (DGW)	12.39	feet
Total Well Depth (TWD)	35.39	feet
Length of the water column (LWC = TWD-DGW)	23	feet
1 casing volume (CV = LWC X C) =	3.75	
3 casing volume 3 X CV =	11.25	gals (standard purge volume)
Total volume of Water Purged Before Sampling	7.5	gals
Total volume of Water Purged for Post Sampling	0	gals
	7.5	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	3.75	7.5	11.25				
Time (military)	1318	1325	1333					1333
pH (s.u.)	5.24	4.86	4.78					
Specific Cond. (umhos/cm)	110	73	67					
Water Temperature (degrees C)	25.86	24.15	22.10					
Turbidity (subjective: clear, slightly cloudy, cloudy)	27.4	994	>1000					
Dissolved Oxygen (mg/l)	3.34	4.21	5.38					
PID readings, if required								

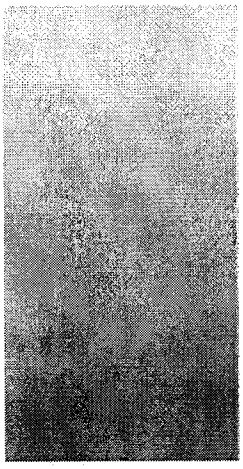
Remarks:

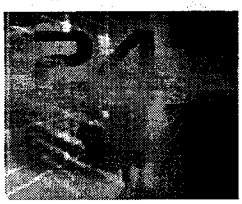
DUP A = MW-1

Dry @ 2 Vol

APPENDIX C
Laboratory Analytical Report

Southeast
ACCUTEST LABORATORIES
08/21/13





Technical Report for

GRI (Geological Resources Inc.)

Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

02261

Accutest Job Number: FA7209

Sampling Dates: 08/08/13 - 08/09/13

Report to:

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Total number of pages in report: **67**

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Harry Behzadi, Ph.D.
Laboratory Director

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA7209

Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Project No: 02261

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
FA7209-1	08/08/13	15:25 SB	08/13/13	SO	Soil	02261 MW-1 (10')
FA7209-2	08/08/13	15:25 SB	08/13/13	SO	Soil	02261 DUPLICATE
FA7209-3	08/08/13	16:13 SB	08/13/13	SO	Field Blank Soil	02261 FIELD BLANK
FA7209-4	08/09/13	13:33 SB	08/13/13	AQ	Ground Water	02261 MW-1 (10')
FA7209-5	08/09/13	00:00 SB	08/13/13	AQ	Ground Water	02261 DUP A
FA7209-6	08/09/13	14:15 SB	08/13/13	AQ	Field Blank Water	02261 FB
FA7209-7	08/09/13	14:32 SB	08/13/13	AQ	Ground Water	02261 PW-2
FA7209-8	08/08/13	00:00 SB	08/13/13	SO	Trip Blank Soil	02261 TB
FA7209-9	08/09/13	00:00 SB	08/13/13	AQ	Trip Blank Water	02261 TB

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

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Summary of Hits

Job Number: FA7209
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 08/08/13 thru 08/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA7209-1	**02261 MW-1 (10')**					
Benzene		0.0045 J	0.0073	0.0015	mg/kg	SW846 8260B
Toluene		0.0072 J	0.0073	0.0015	mg/kg	SW846 8260B
Ethylbenzene		0.0045 J	0.0073	0.0016	mg/kg	SW846 8260B
Xylene (total)		0.0288	0.022	0.0045	mg/kg	SW846 8260B
Methyl Tert Butyl Ether		0.0141	0.0073	0.0015	mg/kg	SW846 8260B
Naphthalene		0.0035 J	0.0073	0.0029	mg/kg	SW846 8260B
Lead		39.5	1.1		mg/kg	SW846 6010C
FA7209-2	**02261 DUPLICATE**					
Benzene		0.0024 J	0.0062	0.0012	mg/kg	SW846 8260B
Toluene		0.0066	0.0062	0.0012	mg/kg	SW846 8260B
Ethylbenzene		0.0085	0.0062	0.0014	mg/kg	SW846 8260B
Xylene (total)		0.0529	0.018	0.0038	mg/kg	SW846 8260B
Methyl Tert Butyl Ether		0.0116	0.0062	0.0012	mg/kg	SW846 8260B
Naphthalene		0.0027 J	0.0062	0.0025	mg/kg	SW846 8260B
Lead		34.0	1.1		mg/kg	SW846 6010C
FA7209-3	**02261 FIELD BLANK**					
No hits reported in this sample.						
FA7209-4	**02261 MW-1 (10')**					
Benzene		19000	250	53	ug/l	SW846 8260B
Toluene		7150	250	50	ug/l	SW846 8260B
Ethylbenzene		1700	250	73	ug/l	SW846 8260B
Xylene (total)		8910	750	120	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2360	250	53	ug/l	SW846 8260B
Naphthalene		469 J	1300	250	ug/l	SW846 8260B
1,2-Dichloroethane		794	250	56	ug/l	SW846 8260B
Acenaphthylene		0.42 J	0.95	0.38	ug/l	SW846 8270D BY SIM
Fluorene		2.2	0.95	0.38	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		69.9	9.5	3.8	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		116	9.5	3.8	ug/l	SW846 8270D BY SIM
Naphthalene		314	9.5	3.8	ug/l	SW846 8270D BY SIM
Phenanthrene		2.6	0.95	0.24	ug/l	SW846 8270D BY SIM
1,2-Dibromoethane [a]		104	4.7	2.3	ug/l	SW846 8011
Lead		7.9	5.0		ug/l	SW846 6010C
FA7209-5	**02261 DUP A**					
Benzene		19700	250	53	ug/l	SW846 8260B

Summary of Hits

Job Number: FA7209
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 08/08/13 thru 08/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		7190	250	50	ug/l	SW846 8260B
Ethylbenzene		1740	250	73	ug/l	SW846 8260B
Xylene (total)		9110	750	120	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2440	250	53	ug/l	SW846 8260B
Naphthalene		494 J	1300	250	ug/l	SW846 8260B
1,2-Dichloroethane		820	250	56	ug/l	SW846 8260B
Acenaphthylene		0.41 J	0.95	0.38	ug/l	SW846 8270D BY SIM
Fluorene		2.1	0.95	0.38	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		69.6	9.5	3.8	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		116	9.5	3.8	ug/l	SW846 8270D BY SIM
Naphthalene		315	9.5	3.8	ug/l	SW846 8270D BY SIM
Phenanthrene		2.5	0.95	0.24	ug/l	SW846 8270D BY SIM
1,2-Dibromoethane [a]		107	4.7	2.4	ug/l	SW846 8011
Lead		12.2	5.0		ug/l	SW846 6010C
FA7209-6	**02261 FB**					
Toluene		0.26 J	1.0	0.20	ug/l	SW846 8260B
FA7209-7	**02261 PW-2**					
Benzene		1.0	1.0	0.21	ug/l	SW846 8260B
Toluene		0.28 J	1.0	0.20	ug/l	SW846 8260B
FA7209-8	**02261 TB**					
No hits reported in this sample.						
FA7209-9	**02261 TB**					
No hits reported in this sample.						

(a) All hits confirmed by dual column analysis.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	02261 MW-1 (10')		
Lab Sample ID:	FA7209-1	**Date Sampled:**	08/08/13
Matrix:	SO - Soil	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	71.8
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y10423.D	1	08/13/13	EP	n/a	n/a	VY458
Run #2							

	Initial Weight
Run #1	4.78 g
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0045	0.0073	0.0015	mg/kg	J
108-88-3	Toluene	0.0072	0.0073	0.0015	mg/kg	J
100-41-4	Ethylbenzene	0.0045	0.0073	0.0016	mg/kg	J
1330-20-7	Xylene (total)	0.0288	0.022	0.0045	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	0.0141	0.0073	0.0015	mg/kg	
91-20-3	Naphthalene	0.0035	0.0073	0.0029	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		75-124%
2037-26-5	Toluene-D8	104%		75-126%
460-00-4	4-Bromofluorobenzene	109%		71-133%
17060-07-0	1,2-Dichloroethane-D4	124%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	02261 MW-1 (10')		
Lab Sample ID:	FA7209-1	**Date Sampled:**	08/08/13
Matrix:	SO - Soil	**Date Received:**	08/13/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	71.8
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L065059.D	1	08/14/13	NAF	08/14/13	OP48200	SL3279
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.23	0.023	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.23	0.023	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.23	0.028	mg/kg	
218-01-9	Chrysene	ND	0.23	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.23	0.023	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	61%		43-107%
1718-51-0	Terphenyl-d14	76%		45-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-1 (10')		
Lab Sample ID:	FA7209-1	**Date Sampled:**	08/08/13
Matrix:	SO - Soil	**Date Received:**	08/13/13
		Percent Solids:	71.8
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	39.5	1.1	mg/kg	1	08/13/13	08/14/13 LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10968
(2) Prep QC Batch: MP25660

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	02261 DUPLICATE		
Lab Sample ID:	FA7209-2	**Date Sampled:**	08/08/13
Matrix:	SO - Soil	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	83.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y10424.D	1	08/13/13	EP	n/a	n/a	VY458
Run #2							

	Initial Weight
Run #1	4.88 g
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0024	0.0062	0.0012	mg/kg	J
108-88-3	Toluene	0.0066	0.0062	0.0012	mg/kg	
100-41-4	Ethylbenzene	0.0085	0.0062	0.0014	mg/kg	
1330-20-7	Xylene (total)	0.0529	0.018	0.0038	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	0.0116	0.0062	0.0012	mg/kg	
91-20-3	Naphthalene	0.0027	0.0062	0.0025	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		75-124%
2037-26-5	Toluene-D8	105%		75-126%
460-00-4	4-Bromofluorobenzene	111%		71-133%
17060-07-0	1,2-Dichloroethane-D4	124%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	02261 DUPLICATE		
Lab Sample ID:	FA7209-2	**Date Sampled:**	08/08/13
Matrix:	SO - Soil	**Date Received:**	08/13/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L065060.D	1	08/14/13	NAF	08/14/13	OP48200	SL3279
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.20	0.020	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.020	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.024	mg/kg	
218-01-9	Chrysene	ND	0.20	0.020	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	60%		43-107%
1718-51-0	Terphenyl-d14	75%		45-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 DUPLICATE		
Lab Sample ID:	FA7209-2	**Date Sampled:**	08/08/13
Matrix:	SO - Soil	**Date Received:**	08/13/13
		Percent Solids:	83.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	34.0	1.1	mg/kg	1	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10968
(2) Prep QC Batch: MP25660

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 FIELD BLANK		
Lab Sample ID:	FA7209-3	**Date Sampled:**	08/08/13
Matrix:	SO - Field Blank Soil	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	100.0
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y10430.D	1	08/13/13	EP	n/a	n/a	VY458
Run #2							

	Initial Weight
Run #1	5.49 g
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0046	0.00091	mg/kg	
108-88-3	Toluene	ND	0.0046	0.00091	mg/kg	
100-41-4	Ethylbenzene	ND	0.0046	0.0010	mg/kg	
1330-20-7	Xylene (total)	ND	0.014	0.0028	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0046	0.00091	mg/kg	
91-20-3	Naphthalene	ND	0.0046	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		75-124%
2037-26-5	Toluene-D8	107%		75-126%
460-00-4	4-Bromofluorobenzene	108%		71-133%
17060-07-0	1,2-Dichloroethane-D4	114%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FIELD BLANK		
Lab Sample ID:	FA7209-3	**Date Sampled:**	08/08/13
Matrix:	SO - Field Blank Soil	**Date Received:**	08/13/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	100.0
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L065061.D	1	08/14/13	NAF	08/14/13	OP48200	SL3279
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.17	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.17	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.17	0.020	mg/kg	
218-01-9	Chrysene	ND	0.17	0.017	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.17	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		40-105%
321-60-8	2-Fluorobiphenyl	60%		43-107%
1718-51-0	Terphenyl-d14	70%		45-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 FIELD BLANK		
Lab Sample ID:	FA7209-3	**Date Sampled:**	08/08/13
Matrix:	SO - Field Blank Soil	**Date Received:**	08/13/13
		Percent Solids:	100.0
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 0.93	0.93	mg/kg	1	08/13/13	08/14/13	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA10968
(2) Prep QC Batch: MP25660

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 MW-1 (10')		
Lab Sample ID:	FA7209-4	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O18068.D	250	08/14/13	EG	n/a	n/a	VO730
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	19000	250	53	ug/l	
108-88-3	Toluene	7150	250	50	ug/l	
100-41-4	Ethylbenzene	1700	250	73	ug/l	
1330-20-7	Xylene (total)	8910	750	120	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2360	250	53	ug/l	
91-20-3	Naphthalene	469	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	794	250	56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-1 (10')		
Lab Sample ID:	FA7209-4	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U040259.D	1	08/15/13	MG	08/14/13	OP48193	SU1877
Run #2	U040296.D	10	08/16/13	MG	08/14/13	OP48193	SU1878

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.95	0.38	ug/l	
208-96-8	Acenaphthylene	0.42	0.95	0.38	ug/l	J
120-12-7	Anthracene	ND	0.95	0.24	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.038	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.038	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.038	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.038	ug/l	
218-01-9	Chrysene	ND	0.19	0.038	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.038	ug/l	
206-44-0	Fluoranthene	ND	0.95	0.24	ug/l	
86-73-7	Fluorene	2.2	0.95	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.038	ug/l	
90-12-0	1-Methylnaphthalene	69.9 [a]	9.5	3.8	ug/l	
91-57-6	2-Methylnaphthalene	116 [a]	9.5	3.8	ug/l	
91-20-3	Naphthalene	314 [a]	9.5	3.8	ug/l	
85-01-8	Phenanthrene	2.6	0.95	0.24	ug/l	
129-00-0	Pyrene	ND	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	100%	103%	42-108%
321-60-8	2-Fluorobiphenyl	84%	83%	40-106%
1718-51-0	Terphenyl-d14	82%	88%	39-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-1 (10')		
Lab Sample ID:	FA7209-4	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8011 EPA 504.1	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD71560.D	250	08/19/13	NG	08/16/13	OP48233	GDD2140
Run #2							

	Initial Volume	Final Volume
Run #1	37.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	104	4.7	2.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-1 (10')		
Lab Sample ID:	FA7209-4	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	7.9	5.0	ug/l	1	08/13/13	08/15/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10970
(2) Prep QC Batch: MP25661

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA7209-5	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O18069.D	250	08/14/13	EG	n/a	n/a	VO730
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	19700	250	53	ug/l	
108-88-3	Toluene	7190	250	50	ug/l	
100-41-4	Ethylbenzene	1740	250	73	ug/l	
1330-20-7	Xylene (total)	9110	750	120	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2440	250	53	ug/l	
91-20-3	Naphthalene	494	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	820	250	56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA7209-5	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U040260.D	1	08/15/13	MG	08/14/13	OP48193	SU1877
Run #2	U040297.D	10	08/16/13	MG	08/14/13	OP48193	SU1878

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.95	0.38	ug/l	
208-96-8	Acenaphthylene	0.41	0.95	0.38	ug/l	J
120-12-7	Anthracene	ND	0.95	0.24	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.038	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.038	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.038	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.038	ug/l	
218-01-9	Chrysene	ND	0.19	0.038	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.038	ug/l	
206-44-0	Fluoranthene	ND	0.95	0.24	ug/l	
86-73-7	Fluorene	2.1	0.95	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.038	ug/l	
90-12-0	1-Methylnaphthalene	69.6 [a]	9.5	3.8	ug/l	
91-57-6	2-Methylnaphthalene	116 [a]	9.5	3.8	ug/l	
91-20-3	Naphthalene	315 [a]	9.5	3.8	ug/l	
85-01-8	Phenanthrene	2.5	0.95	0.24	ug/l	
129-00-0	Pyrene	ND	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	93%	99%	42-108%
321-60-8	2-Fluorobiphenyl	76%	78%	40-106%
1718-51-0	Terphenyl-d14	76%	83%	39-121%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA7209-5	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8011 EPA 504.1	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD71562.D	250	08/19/13	NG	08/16/13	OP48233	GDD2140
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	107	4.7	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA7209-5	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	12.2	5.0	ug/l	1	08/13/13	08/15/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10970
(2) Prep QC Batch: MP25661

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 FB		
Lab Sample ID:	FA7209-6	**Date Sampled:**	08/09/13
Matrix:	AQ - Field Blank Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O18055.D	1	08/14/13	EG	n/a	n/a	VO730
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	0.26	1.0	0.20	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	90%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FB		
Lab Sample ID:	FA7209-6	**Date Sampled:**	08/09/13
Matrix:	AQ - Field Blank Water	**Date Received:**	08/13/13
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U040261.D	1	08/15/13	MG	08/14/13	OP48193	SU1877
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.96	0.38	ug/l	
208-96-8	Acenaphthylene	ND	0.96	0.38	ug/l	
120-12-7	Anthracene	ND	0.96	0.24	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.038	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.038	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.038	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.038	ug/l	
218-01-9	Chrysene	ND	0.19	0.038	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.038	ug/l	
206-44-0	Fluoranthene	ND	0.96	0.24	ug/l	
86-73-7	Fluorene	ND	0.96	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.038	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.96	0.38	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.96	0.38	ug/l	
91-20-3	Naphthalene	ND	0.96	0.38	ug/l	
85-01-8	Phenanthrene	ND	0.96	0.24	ug/l	
129-00-0	Pyrene	ND	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FB		
Lab Sample ID:	FA7209-6	**Date Sampled:**	08/09/13
Matrix:	AQ - Field Blank Water	**Date Received:**	08/13/13
Method:	SW846 8011 EPA 504.1	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD71552.D	1	08/16/13	EM	08/16/13	OP48233	GDD2139
Run #2							

	Initial Volume	Final Volume
Run #1	37.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		63-137%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 PW-2		
Lab Sample ID:	FA7209-7	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O18070.D	1	08/14/13	EG	n/a	n/a	VO730
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.0	1.0	0.21	ug/l	
108-88-3	Toluene	0.28	1.0	0.20	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	87%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FB		
Lab Sample ID:	FA7209-6	**Date Sampled:**	08/09/13
Matrix:	AQ - Field Blank Water	**Date Received:**	08/13/13
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/13/13	08/15/13	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10970
(2) Prep QC Batch: MP25661

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 PW-2		
Lab Sample ID:	FA7209-7	**Date Sampled:**	08/09/13
Matrix:	AQ - Ground Water	**Date Received:**	08/13/13
Method:	SW846 8011 EPA 504.1	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD71553.D	1	08/16/13	EM	08/16/13	OP48233	GDD2139
Run #2							

	Initial Volume	Final Volume
Run #1	37.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		63-137%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 TB		
Lab Sample ID:	FA7209-8	**Date Sampled:**	08/08/13
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y10426.D	1	08/13/13	EP	n/a	n/a	VY458
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0050	0.0010	mg/kg	
108-88-3	Toluene	ND	0.0050	0.0010	mg/kg	
100-41-4	Ethylbenzene	ND	0.0050	0.0011	mg/kg	
1330-20-7	Xylene (total)	ND	0.015	0.0031	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0050	0.0010	mg/kg	
91-20-3	Naphthalene	ND	0.0050	0.0020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		75-124%
2037-26-5	Toluene-D8	104%		75-126%
460-00-4	4-Bromofluorobenzene	111%		71-133%
17060-07-0	1,2-Dichloroethane-D4	116%		72-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 TB		
Lab Sample ID:	FA7209-9	**Date Sampled:**	08/09/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O18054.D	1	08/14/13	EG	n/a	n/a	VO730
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	90%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	92%		83-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

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Accutest JOB # FA7209 PAGE 1 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

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Address: 2301F CHAIN POINT EXECUTIVE DRIVE
City: CHARLOTTE State: NC Zip: 28217
Project Contact: W. SCOTT BALL E-mail: WSB@GEOLOGICALRESOURCESINC.COM
Phone#: 704 845-4010
Sampler(s) Name(s) (Printed): W. SCOTT BALL

Project Information

Project Name: CAROLINA COUNTRY CONVENIENCE
Street: 1908 HWY 601 North
City: PAGELAND State: SC
Project #: 02261
Fax #: 704-845-4012
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	MeOH	HNO3	H2SO4	NaOH/Zinc	DI Water	8260, MTBE, NAPH. - 8260	5 PAHs - 8270	LEAD	Matrix Codes
1	02261 MW-1 (10')	8/8/13	1525	SB	SO	5	2	2						1	X	X	X	
2	02261 DUPLICATE	8/8/13	1525	SB	SO	5	2	2						1	X	X	X	
3	02261 FIELD BLANK	8/8/13	1613	SB	SO	5	2	2						1	X	X	X	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Leblink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [X] COMMERCIAL "B" (RESULTS + QC)
- [ ] REDT (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [X] EDD'S

2828-C QUEEN CITY DR CLT NC 28208

Comments / Remarks

SCDHEC UST MGMT PROGRAM
UST PERMIT # 02261

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 W. Scott Ball	8/12 9:00	2	3	8/12 16:40	4 FP
Relinquished by: 5 FP 081313	Date Time: 930	Received By: 6 RICOH ACE	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.8

4.1 4

FA7209: Chain of Custody
Page 1 of 3

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA7209 PAGE 2 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Geological Resources Inc
Address: 2301 F South Point Exp Dr
City: Charlotte State: NC Zip: 28217
Project Contacts: Scott Ball E-mail: WSB@geological
Phone#: 704 845 4010
Sampler(s) Name(s) (Printed): MICHAEL SENGAUB

Project Information

Project Name: Carolina Country Convenience
Street:
City: Pageland State: SC
Project #: 02261
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Container Information	VOA, TBE, MTBE	8260B by 8270	PAH by 8270	610 PAH by 8310	EDB by 8011	Lab Use Only
4	02261 MW-1	8/9	1333	MDS	GW	7		X	X	X	X	X	
5	02261 DUPA				↓	7		X	X	X	X	X	
6	02261 FB		1415			7		X	X	X	X	X	
7	02261 PW-2	↓	1432	↓	GW	5		X	X			X	
8	02261 TB							X					
	Temp Blank												

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [X] COMMERCIAL "B" (RESULTS)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [X] EDD's

ACCUTEST
2828-C QUEEN CITY DR
CLT NC 28208

Comments / Remarks

SCDHEC UST Management
UST Permit # 02261

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	8/12 9:30a	2	3 8/12 16:a		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5 08/13-13	930	6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.1 4

FA7209: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA7209 CLIENT: GRI PROJECT: Carolina Country Convenience

DATE/TIME RECEIVED: 08-13-13 930 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8006 0609 8879

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [x] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? 3

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [x] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

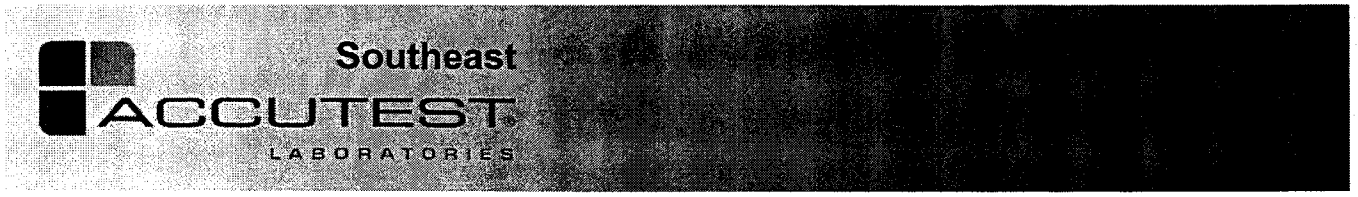
SUMMARY OF COMMENTS: Received 1 Amber 8270 + 2 vial EDB samples 4,5,6. Sample #7 Received 2 vials EDB. Received 1 soil trip Blank and 1 Water trip Blank.

TECHNICIAN SIGNATURE/DATE [signature] 8.13.13 REVIEWER SIGNATURE/DATE [signature] 8-13-13

NF 12/10 receipt confirmation 122910.xls

4.1 4

FA7209: Chain of Custody
Page 3 of 3



GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY458-MB	Y10415.D	1	08/13/13	EP	n/a	n/a	VY458

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7209-1, FA7209-2, FA7209-3, FA7209-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	3.1	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	75-124%
2037-26-5	Toluene-D8	109%	75-126%
460-00-4	4-Bromofluorobenzene	109%	71-133%
17060-07-0	1,2-Dichloroethane-D4	107%	72-135%

Method Blank Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO730-MB	O18053.D	1	08/14/13	EG	n/a	n/a	VO730

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7209-4, FA7209-5, FA7209-6, FA7209-7, FA7209-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	91%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	92%	83-118%

Blank Spike Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY458-BS	Y10414.D	1	08/13/13	EP	n/a	n/a	VY458

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7209-1, FA7209-2, FA7209-3, FA7209-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	46.2	92	76-126
100-41-4	Ethylbenzene	50	46.3	93	77-123
1634-04-4	Methyl Tert Butyl Ether	50	45.7	91	77-120
91-20-3	Naphthalene	50	44.5	89	79-129
108-88-3	Toluene	50	46.4	93	76-124
1330-20-7	Xylene (total)	150	147	98	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	75-124%
2037-26-5	Toluene-D8	108%	75-126%
460-00-4	4-Bromofluorobenzene	110%	71-133%
17060-07-0	1,2-Dichloroethane-D4	102%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO730-BS	O18052.D	1	08/14/13	EG	n/a	n/a	VO730

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7209-4, FA7209-5, FA7209-6, FA7209-7, FA7209-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.1	108	81-122
107-06-2	1,2-Dichloroethane	25	26.1	104	75-125
100-41-4	Ethylbenzene	25	27.5	110	81-121
1634-04-4	Methyl Tert Butyl Ether	25	23.5	94	72-117
91-20-3	Naphthalene	25	24.8	99	63-132
108-88-3	Toluene	25	27.3	109	80-120
1330-20-7	Xylene (total)	75	86.3	115	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	92%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA7098-1MS	Y10421.D	1	08/13/13	EP	n/a	n/a	VY458
FA7098-1MSD	Y10422.D	1	08/13/13	EP	n/a	n/a	VY458
FA7098-1	Y10420.D	1	08/13/13	EP	n/a	n/a	VY458

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7209-1, FA7209-2, FA7209-3, FA7209-8

CAS No.	Compound	FA7098-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4.8 U		78.5	68.6	87	65.1	83	5	76-126/26
100-41-4	Ethylbenzene	4.8 U		78.5	67.4	86	66.1	84	2	77-123/31
1634-04-4	Methyl Tert Butyl Ether	4.8 U		78.5	64.0	82	63.8	82	0	77-120/24
91-20-3	Naphthalene	4.8 U		78.5	57.8	74*	57.9	74*	0	79-129/33
108-88-3	Toluene	4.8 U		78.5	66.8	85	66.9	86	0	76-124/30
1330-20-7	Xylene (total)	14 U		235	210	89	208	89	1	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	FA7098-1	Limits
1868-53-7	Dibromofluoromethane	105%	105%	102%	75-124%
2037-26-5	Toluene-D8	106%	110%	110%	75-126%
460-00-4	4-Bromofluorobenzene	110%	111%	113%	71-133%
17060-07-0	1,2-Dichloroethane-D4	102%	96%	103%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA7097-2MS	O18061.D	1	08/14/13	EG	n/a	n/a	VO730
FA7097-2MSD	O18062.D	1	08/14/13	EG	n/a	n/a	VO730
FA7097-2	O18057.D	1	08/14/13	EG	n/a	n/a	VO730

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA7209-4, FA7209-5, FA7209-6, FA7209-7, FA7209-9

CAS No.	Compound	FA7097-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	27.3	109	26.9	108	1	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	25.9	104	26.1	104	1	75-125/14
100-41-4	Ethylbenzene	ND		25	27.2	109	27.5	110	1	81-121/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	22.7	91	23.9	96	5	72-117/14
91-20-3	Naphthalene	ND		25	23.9	96	26.5	106	10	63-132/25
108-88-3	Toluene	ND		25	26.5	106	26.6	106	0	80-120/14
1330-20-7	Xylene (total)	ND		75	84.7	113	84.2	112	1	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA7097-2	Limits
1868-53-7	Dibromofluoromethane	95%	94%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	91%	91%	91%	79-125%
2037-26-5	Toluene-D8	93%	92%	94%	85-112%
460-00-4	4-Bromofluorobenzene	91%	92%	93%	83-118%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48200-MB	L065053.D	1	08/14/13	NAF	08/14/13	OP48200	SL3279

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7209-1, FA7209-2, FA7209-3

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	20	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	65%	40-102%
4165-62-2	Phenol-d5	68%	41-100%
118-79-6	2,4,6-Tribromophenol	74%	42-108%
4165-60-0	Nitrobenzene-d5	78%	40-105%
321-60-8	2-Fluorobiphenyl	68%	43-107%
1718-51-0	Terphenyl-d14	70%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/kg	

(a) No TICs detected.

Method Blank Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48193-MB	U040246.D	1	08/15/13	MG	08/14/13	OP48193	SU1877

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA7209-4, FA7209-5, FA7209-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.40	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.40	ug/l	
120-12-7	Anthracene	ND	1.0	0.25	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.040	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.040	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.040	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.040	ug/l	
218-01-9	Chrysene	ND	0.20	0.040	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.040	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.040	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.40	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.40	ug/l	
91-20-3	Naphthalene	ND	1.0	0.40	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	65%	42-108%
321-60-8	2-Fluorobiphenyl	63%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

Blank Spike Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48200-BS	L065052.D	1	08/14/13	NAF	08/14/13	OP48200	SL3279

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7209-1, FA7209-2, FA7209-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
56-55-3	Benzo(a)anthracene	1670	1360	82	66-111
205-99-2	Benzo(b)fluoranthene	1670	1420	85	67-113
207-08-9	Benzo(k)fluoranthene	1670	1280	77	67-114
218-01-9	Chrysene	1670	1360	82	65-112
53-70-3	Dibenzo(a,h)anthracene	1670	1360	82	68-115

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	68%	40-102%
4165-62-2	Phenol-d5	69%	41-100%
118-79-6	2,4,6-Tribromophenol	85%	42-108%
4165-60-0	Nitrobenzene-d5	78%	40-105%
321-60-8	2-Fluorobiphenyl	71%	43-107%
1718-51-0	Terphenyl-d14	83%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48193-BS	U040245.D	1	08/15/13	MG	08/14/13	OP48193	SU1877

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA7209-4, FA7209-5, FA7209-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	10	7.9	79	56-101
208-96-8	Acenaphthylene	10	7.7	77	54-104
120-12-7	Anthracene	5	4.0	80	67-106
56-55-3	Benzo(a)anthracene	5	4.0	80	65-106
50-32-8	Benzo(a)pyrene	5	4.1	82	58-111
205-99-2	Benzo(b)fluoranthene	5	4.3	86	59-113
191-24-2	Benzo(g,h,i)perylene	5	3.9	78	43-112
207-08-9	Benzo(k)fluoranthene	5	4.3	86	58-110
218-01-9	Chrysene	5	4.2	84	66-107
53-70-3	Dibenzo(a,h)anthracene	5	3.8	76	40-113
206-44-0	Fluoranthene	10	8.2	82	64-110
86-73-7	Fluorene	10	7.9	79	60-106
193-39-5	Indeno(1,2,3-cd)pyrene	5	3.8	76	44-112
90-12-0	1-Methylnaphthalene	10	7.9	79	54-105
91-57-6	2-Methylnaphthalene	10	7.3	73	53-105
91-20-3	Naphthalene	10	7.6	76	56-105
85-01-8	Phenanthrene	10	8.0	80	62-105
129-00-0	Pyrene	10	8.0	80	62-109

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	85%	42-108%
321-60-8	2-Fluorobiphenyl	81%	40-106%
1718-51-0	Terphenyl-d14	85%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48200-MS	L065062.D	1	08/14/13	NAF	08/14/13	OP48200	SL3279
OP48200-MSD	L065063.D	1	08/14/13	NAF	08/14/13	OP48200	SL3279
FA7209-3	L065061.D	1	08/14/13	NAF	08/14/13	OP48200	SL3279

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA7209-1, FA7209-2, FA7209-3

CAS No.	Compound	FA7209-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
56-55-3	Benzo(a)anthracene	ND		1670	1370	82	1430	86	4	66-111/23
205-99-2	Benzo(b)fluoranthene	ND		1670	1390	83	1420	85	2	67-113/24
207-08-9	Benzo(k)fluoranthene	ND		1670	1330	80	1370	82	3	67-114/22
218-01-9	Chrysene	ND		1670	1350	81	1390	83	3	65-112/25
53-70-3	Dibenzo(a,h)anthracene	ND		1670	1400	84	1450	87	4	68-115/23

CAS No.	Surrogate Recoveries	MS	MSD	FA7209-3	Limits
367-12-4	2-Fluorophenol	72%	75%		40-102%
4165-62-2	Phenol-d5	75%	78%		41-100%
118-79-6	2,4,6-Tribromophenol	82%	87%		42-108%
4165-60-0	Nitrobenzene-d5	80%	86%	68%	40-105%
321-60-8	2-Fluorobiphenyl	77%	79%	60%	43-107%
1718-51-0	Terphenyl-d14	83%	89%	70%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48193-MS	U040263.D	1	08/15/13	MG	08/14/13	OP48193	SU1877
OP48193-MSD	U040264.D	1	08/15/13	MG	08/14/13	OP48193	SU1877
FA7201-1	U040247.D	1	08/15/13	MG	08/14/13	OP48193	SU1877

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA7209-4, FA7209-5, FA7209-6

CAS No.	Compound	FA7201-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.96	U	19.2	14.1	73	14.1	73	0	56-101/24
208-96-8	Acenaphthylene	0.96	U	19.2	14.0	73	14.0	73	0	54-104/25
120-12-7	Anthracene	0.96	U	9.62	7.2	75	7.4	77	3	67-106/21
56-55-3	Benzo(a)anthracene	0.19	U	9.62	7.8	81	8.0	83	3	65-106/22
50-32-8	Benzo(a)pyrene	0.19	U	9.62	7.5	78	7.9	82	5	58-111/23
205-99-2	Benzo(b)fluoranthene	0.19	U	9.62	7.6	79	7.9	82	4	59-113/24
191-24-2	Benzo(g,h,i)perylene	0.19	U	9.62	7.2	75	7.5	78	4	43-112/24
207-08-9	Benzo(k)fluoranthene	0.19	U	9.62	8.0	83	8.4	87	5	58-110/23
218-01-9	Chrysene	0.19	U	9.62	7.8	81	8.1	84	4	66-107/22
53-70-3	Dibenzo(a,h)anthracene	0.19	U	9.62	7.4	77	7.8	81	5	40-113/25
206-44-0	Fluoranthene	0.96	U	19.2	15.6	81	16.1	84	3	64-110/22
86-73-7	Fluorene	0.96	U	19.2	14.5	75	14.7	76	1	60-106/24
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	U	9.62	7.4	77	7.8	81	5	44-112/25
90-12-0	1-Methylnaphthalene	4.1		19.2	21.7	92	18.7	76	15	54-105/26
91-57-6	2-Methylnaphthalene	5.3		19.2	24.6	100	20.4	79	19	53-105/26
91-20-3	Naphthalene	5.0		19.2	28.6	123*	23.2	95	21	56-105/27
85-01-8	Phenanthrene	0.96	U	19.2	14.6	76	14.9	77	2	62-105/22
129-00-0	Pyrene	0.96	U	19.2	14.5	75	15.0	78	3	62-109/21

CAS No.	Surrogate Recoveries	MS	MSD	FA7201-1	Limits
4165-60-0	Nitrobenzene-d5	77%	73%	60%	42-108%
321-60-8	2-Fluorobiphenyl	74%	72%	63%	40-106%
1718-51-0	Terphenyl-d14	82%	85%	74%	39-121%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48233-MB	DD71547.D	1	08/16/13	EM	08/16/13	OP48233	GDD2139

The QC reported here applies to the following samples: **Method:** SW846 8011

FA7209-4, FA7209-5, FA7209-6, FA7209-7

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	92%	63-137%

Blank Spike Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48233-BS	DD71546.D	1	08/16/13	EM	08/16/13	OP48233	GDD2139

The QC reported here applies to the following samples: **Method:** SW846 8011

FA7209-4, FA7209-5, FA7209-6, FA7209-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.24	96	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	89%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48233-MS	DD71561.D	250	08/19/13	NG	08/16/13	OP48233	GDD2140
FA7209-4 [a]	DD71560.D	250	08/19/13	NG	08/16/13	OP48233	GDD2140

The QC reported here applies to the following samples: **Method:** SW846 8011

FA7209-4, FA7209-5, FA7209-6, FA7209-7

CAS No.	Compound	FA7209-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	104		0.234	118	5984* [b]	72-134

CAS No.	Surrogate Recoveries	MS	FA7209-4	Limits
460-00-4	4-Bromofluorobenzene	0%* [c]	0%* [c]	63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA7209
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP48233-DUP	DD71563.D	250	08/19/13	NG	08/16/13	OP48233	GDD2140
FA7209-5 [a]	DD71562.D	250	08/19/13	NG	08/16/13	OP48233	GDD2140

The QC reported here applies to the following samples: **Method:** SW846 8011

FA7209-4, FA7209-5, FA7209-6, FA7209-7

CAS No.	Compound	FA7209-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	107		107		0	28

CAS No.	Surrogate Recoveries	DUP	FA7209-5	Limits
460-00-4	4-Bromofluorobenzene	0%* [b]	0%* [b]	63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25660
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/13/13

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1		
Antimony	1.0	.065	.095		
Arsenic	0.50	.08	.08		
Barium	10	.05	.25		
Beryllium	0.25	.025	.025		
Cadmium	0.20	.025	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.09	.09		
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.09		
Iron	15	1.5	3.5		
Lead	1.0	.055	.055	0.010	<1.0
Magnesium	250	3.7	3.8		
Manganese	0.75	.035	.045		
Molybdenum	2.5	.03	.03		
Nickel	2.0	.025	.025		
Potassium	500	10	10		
Selenium	1.0	.1	.15		
Silver	0.50	.025	.025		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.065	.09		
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15		

Associated samples MP25660: FA7209-1, FA7209-2, FA7209-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25660
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/13/13 08/13/13

Metal	FA7203-7 Original	DUP	RPD	QC Limits	FA7203-7 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron									
Lead	4.0	4.9	20.2 (a)	0-20	4.0	29.7	26.4	97.3	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium	anr								
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP25660: FA7209-1, FA7209-2, FA7209-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25660
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/13/13

Metal	FA7203-7 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron						
Lead	4.0	31.5	26.4	104.1	5.9	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium	anr					
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP25660: FA7209-1, FA7209-2, FA7209-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25660
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/13/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	23.7	25	94.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium	anr			
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25660: FA7209-1, FA7209-2, FA7209-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25660
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	FA7203-7 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	73.8	75.9	2.8	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium	anr			
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP25660: FA7209-1, FA7209-2, FA7209-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25660
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	Sample ml	Final ml	FA7203-7 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	73.8	72.324	120.5	0.2	2.5	50	96.4	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25660: FA7209-1, FA7209-2, FA7209-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25661
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				08/13/13		08/13/13	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	1.3	1.3				
Arsenic	10	1.6	2.5				
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1.8	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29				
Lead	5.0	1.1	1.1	0.80	<5.0	-1.2	<5.0
Magnesium	5000	74	74				
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2	2				
Silver	10	.5	.5				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Sulfur	50	5	10				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP25661: FA7209-4, FA7209-5, FA7209-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25661
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:		08/13/13					08/13/13	
Metal	FA7114-2F Original	DUP	RPD	QC Limits	FA7114-2F Original	MS	Spikelot MPFLICP2 % Rec	QC Limits
Aluminum								
Antimony	anr							
Arsenic	anr							
Barium	anr							
Beryllium								
Cadmium	anr							
Calcium								
Chromium	anr							
Cobalt								
Copper	anr							
Iron	anr							
Lead	0.0	0.0	NC	0-20	0.0	480	500	96.0	80-120
Magnesium								
Manganese	anr							
Molybdenum								
Nickel								
Potassium								
Selenium	anr							
Silver	anr							
Sodium								
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium	anr							
Zinc	anr							

Associated samples MP25661: FA7209-4, FA7209-5, FA7209-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25661
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	FA7114-2F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	0.0	474	500	94.8	1.3	20
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP25661: FA7209-4, FA7209-5, FA7209-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25661
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	466	500	93.2	80-120
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25661: FA7209-4, FA7209-5, FA7209-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25661
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/13/13

Metal	FA7114-2F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP25661: FA7209-4, FA7209-5, FA7209-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA7209
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP25661
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

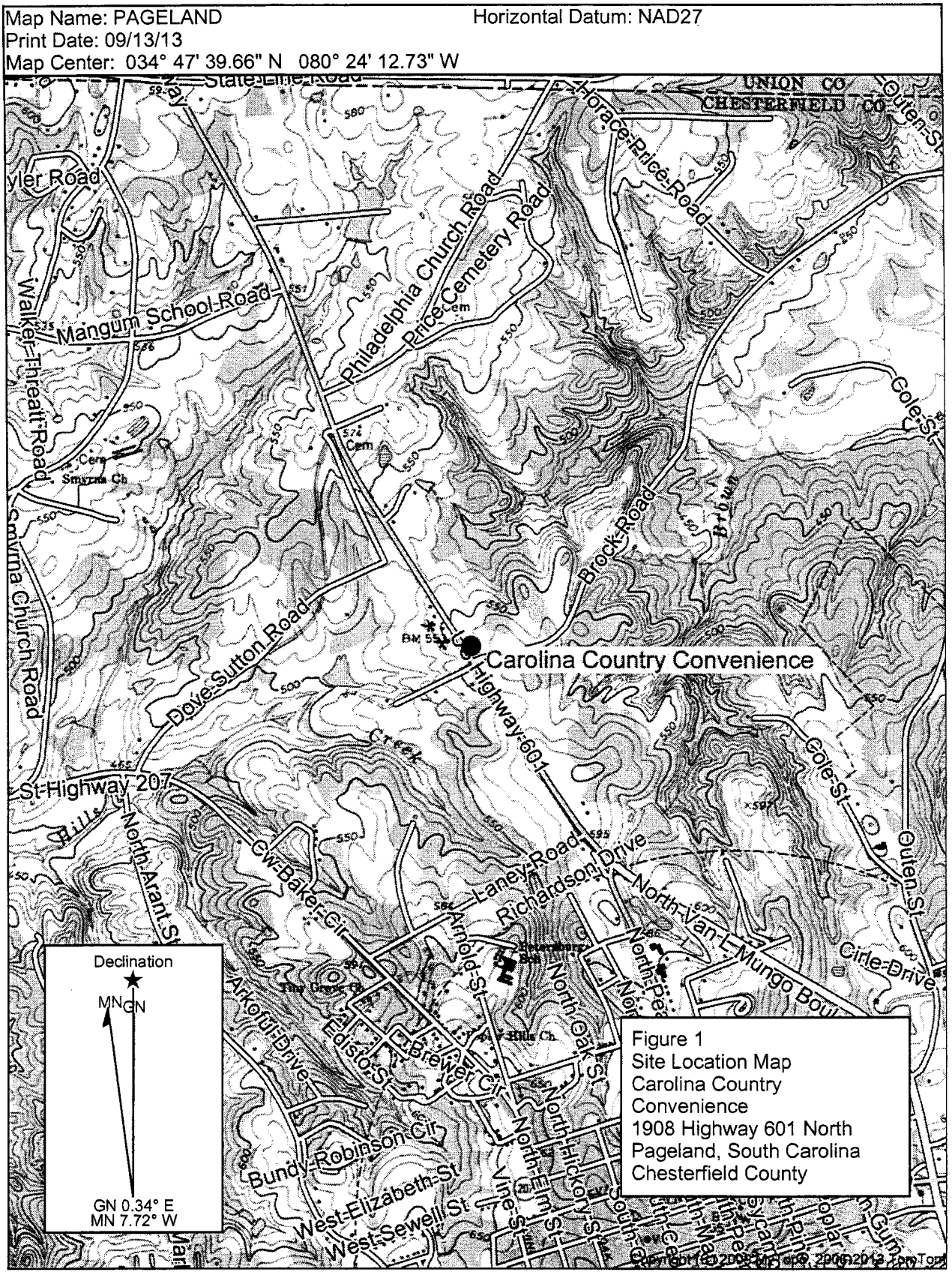
Prep Date: 08/13/13

Metal	Sample ml	Final ml	FA7114-2F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10			44.6	0.2	2.5	50	89.2	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP25661: FA7209-4, FA7209-5, FA7209-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

APPENDIX D
Topographic Map


Map Name: PAGELAND
Horizontal Datum: NAD27
Print Date: 09/13/13
Map Center: 034° 47' 39.66" N 080° 24' 12.73" W
UNION CO
CHESTERFIELD CO
State Line Road
Horace Price Road
Philadelphia Church Road
Price Cemetery Road
Mangum School Road
Walker Threatt Road
Smyrna Church Road
Brock Road
Dove Sutton Road
Carolina Country Convenience
Highway 601
St Highway 207
Cole St
Outen St
Laney Road
Richardson Drive
North Van L Mungo Boul
Circle Drive
CW Baker Cir
Arnold St
Arkoti Drive
Edisto St
Brewer Road
North Oak St
North Hickory St
Bundy Robinson Cir
West Elizabeth St
West Sewell St
Declination
MN GN
GN 0.34° E
MN 7.72° W
Figure 1
Site Location Map
Carolina Country
Convenience
1908 Highway 601 North
Pageland, South Carolina
Chesterfield County
SCALE 1:24000
0 1000 2000 3000 4000 5000 6000
FEET
Carolina Country Convenience
* WATER SUPPLY WELLS

APPENDIX E
Site Base Map

LEGEND

TYPE II MONITORING WELL

DISPENSER

N

Geological Resources, Inc.

0 10 20 40

(IN FEET)
1 inch = 20 ft

SITE MAP

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — Incident # 02261

Date:	09/17/13	Drawn by:	ACB	Figure:	2

APPENDIX F
Disposal Manifest

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.

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address
Carolina Country Convenience
1908 Hwy 601 N Pageland, SC
4. Generator's Phone ( )

5. Transporter 1 Company Name
CRT

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

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
CWS, LLC
303 S. Madbly St
Whiteville, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON Regulated petrole contact water	01	DR	7.5	G
b. Soil Cuttings	01	DR	.25	T
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

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: Michael Senglaub
Signature:
Date: Month 8 Day 12 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Senglaub
Signature:
Date: Month 8 Day 12 Year 13

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: Allen Cox
Signature:
Date: Month 8 Day 12 Year 13

NON-HAZARDOUS WASTE

F-14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

PRINTED WITH SOY INK

Rev. 3/95

APPENDIX G
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?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?			X
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?	X		
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?	X		
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?			X
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

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

Explanation for missing or incomplete information.

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MICHAEL WALLACE
CAROINA COUNTRY LLC
1908 HWY 601 N
PAGELAND SC 29728-8292

NOV 2 2 2013

UST 11feet DOCKETING

Re: QAPP Contractor Addendum Directive for Tier II Assessment
Carolina Country Convenience, 1908 Hwy 601 N, Pageland, SC
UST Permit #02261
Release # 2 Reported October 11, 2012
Initial Ground Water Assessment Report received January 4, 2012
Chesterfield County

Dear Mr. Wallace:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report submitted by Geological Resources, Incorporated. The analytical data reports groundwater concentrations of petroleum Chemicals of Concern above the Risk-Based Screening Level (RBSL).

To determine what risk this release may pose to human health and the environment and in accordance with South Carolina Underground Storage Tank Control Regulations, Section 280.65, it is necessary to conduct a Tier II Assessment as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 2.0. The QAPP Contractor Addendum must be prepared using the QAPP Revision 2.0, Appendix B format (available on-line at http://www.scdhec.gov/environment/lwm/usthome/ Qapp.htm). **Your contractor must submit a completed QAPP Contractor Addendum within thirty (30) days of the date of this letter. Please note that Agency approval must be issued before work begins.** Upon approval of the site specific QAPP Contractor Addendum, activities must be conducted in accordance with the UST QAPP and in compliance with all applicable regulations.

According to the UST Division's records, you had a $ 25,000.00 environmental insurance policy with Colony Insurance Company at the time the release was reported. Therefore, the release cannot receive reimbursement from the State Underground Petroleum Environmental Response Bank (SUPERB) Account until the commercial insurance is exhausted. Appropriate costs should be submitted to your insurance carrier for reimbursement.

In accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Agency by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. Also, state law requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

On all correspondence regarding this site, please reference UST permit number 02261. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-7542.

Sincerely,

Minda Hornosky, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 2301 Crown Point Executive Drive, Suite F, Charlotte, NC 28227
Technical File

UST
DEC 2 3 2013
DIVISION

Geological Resources, Inc.

UST
12tech
DOCKETING

December 18, 2013

Ms. Minda Hornosky
South Carolina Department of Health
and Environmental Control
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

Re: GRI Proposal No. 13-646
Cost Agreement and QAPP Contractor Addendum – Revision 0
Carolina Country Convenience
1908 Highway 601 N., Pageland, Chesterfield County
UST Permit No. 02261

Dear Ms. Hornosky:

In response to your November 22, 2013 QAPP Contractor Addendum Directive, Geological Resources, Inc. (GRI) submits the attached Cost Agreement to conduct ground water assessment activities at the above referenced site. The associated QAPP Contractor Addendum (Revision 0) is also attached. Please contact me at (704) 845-4010 with any questions.

Sincerely,
Geological Resources, Inc.
S.C. Site Rehabilitation Contractor #74

W. Scott Ball
Senior Project Manager

enclosure

cc: file

2301 Crown Point Executive Drive Suite F Charlotte, NC 28227
Phone (704) 845-4010 / (888) 870-4133 Fax: (704) 845-4012

Appendix B: Contractor Addendum

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
Carolina Country Convenience – UST Permit No. 02261

1908 Highway 601 North, Pageland, Chesterfield County, South Carolina

Prepared by: W. Scott Ball

Geological Resources, Inc.
SC Site Rehabilitation Contractor No. 74

Date: 12/18/2013

Geological Resources. Inc.

Approvals

Minda Homosky SC DHEC Project Manager	_____ Signature	Date_____
John M. Brown, PG - GRI Contractor QA Manager	John M Brown Signature	Date 12/17/13
Scott Ball - GRI Site Rehabilitation Contractor	Scott Ball Signature	Date 12/17/13
Harry Behzadi Laboratory Director	H Behzadi Signature	Date 12/17/13

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A3 Distribution List

Name	Title/Role from UST Master QAPP	License/Number/Exp. date	Organization/Address	Telephone Number	Fax Number	Email Address
Minda Hornosky	SC DHEC Technical Project Manager	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6395	803-896-6245	Minda Hornosky (hornosmj@dhec.sc.gov)	Minda Hornosky
John M. Brown, P.G.	Contractor Project Verifier	P.G./S.C 1116/ 6-30-2015	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	johnbrown@geologicalresourcesinc.com
Terry D. Kennedy, P.G.	Contractor Project Verifier	P.G./S.C 2011/6-30-2015	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	tdk@geologicalresourcesinc.com
Johanna Teschner, P.G.	Contractor Project Verifier	P.G./S.C 2576/6-30-2015	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jmt@geologicalresourcesinc.com
Rohit Shetty, P.G.	Contractor Project Verifier	P.E./S.C 20536/6-30-2014	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	rshetty@geologicalresourcesinc.com
Rae Troiano Brown, P.G.	Contractor Project Verifier	P.G./S.C 2366/6-30-2015	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-815-0653	252-321-6094	rtb@geologicalresourcesinc.com
John M. Brown, P.G.	Contractor QA Officer	P.G./S.C 1116/ 6-30-2015	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	johnbrown@geologicalresourcesinc.com
Scott Ball	Contractor Site Rehabilitation Contractor	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	wsb@geologicalresourcesinc.com
Scott Ball	Contractor Field Manager	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	wsb@geologicalresourcesinc.com
Michael Senglaub	Contractor Field Geologist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	mds@geologicalresourcesinc.com

Hanna Kahrman n-Zadak	Contractor Field Geologist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	hkz@geologicalre sourcesinc.com
Joanna Alley	Contractor Field Engineer	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jra@geologicalres ourcesinc.com
Holden McClenn ey	Contractor Field Geologist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	hwm@geologicalr esourcesinc.com
Nicole Long	Contractor Field Scientist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	nml@geologicalre sourcesinc.com
William Regenth al	Contractor Field Geologist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-815-0653	252-321-6094	wlr@geologicalre sourcesinc.com
Michael Ransier	Well Services/Drill er	Drilling License/S.C. 1152A/6-30-2014	REDI – 1 Piney Point Whispering Pines, NC 28327	910-690-6688	910-690-6690	mransier@earth link.net
Harry Behzadi	Laboratory Director	Certification/ SC96038001	Accutest, 4405 Vineland Road, Suite C-15, Orlando, FL 32811	407-425-6700	427-425-0707	harryb@accutes t.com

Table 1A Addendum Distribution and Project Organization List

It is understood that certification records must be produced if requested by SCDHEC.

A4 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 release for the site was reported on October 11, 2012. An IGWA was completed at the site in October 2013. One monitoring well (MW-1) was installed as part of the IGWA activities. Concentrations of BTEX constituents, MTBE, naphthalene, 1, 2-DCA and EDB were reported in the ground water sample collected from MW-1. There is currently a UST system in operation at the site. The site contains an active petroleum retail facility/convenience store. Land use in the area is generally agricultural and residential. Municipal water is available to the subject site and all immediately surrounding properties. Two water supply wells were identified within a 500-foot radius of the site during the IGWA activities. A release of petroleum products has also been reported for the Eddie's Pitt Stop site (#18871), which is located across Highway 601 to the west/northwest of the site. Seven monitoring wells (MW-10, MW-20, MW-20D, MW-21,

MW-21D, MW-22 and MW-22D) associated with the Eddie's Pitt Stop release are located on the subject site in the general area of MW-1

The release is currently being assessed to monitor contaminant concentrations in the ground water.

Please answer the following: Does this project fall under UST or Brownfields area?

UST

A5 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).***

   SOW will include the installation of two soil borings in the UST area, five soil borings in the areas occupied by product lines and dispensers and one back ground boring. **Approximate soil boring locations are shown on the attached Figure 2.** Boring depths will range from 10 feet to 25 feet or to the water table. Soil samples will be collected from each of the borings and submitted for laboratory analyses in accordance with the guidelines set forth in the QAPP. Installation of as many as 15 field screening points to delineate the horizontal and vertical extent of the ground water contaminant plume. The depths of the screening points will be from 30 feet to 56 feet. Ground water samples collected from the screening points will be scanned with a PID for the presence of volatile organic compounds. Based on the field screening results, as many as an additional 10 Type III monitoring wells and three telescoping well will be installed. Samples will be collected for grain size analyses during the installation of the one telescoping well and one Type III well. The proposed locations of the permanent monitoring wells will be presented to the SCDHEC for approval prior to installing the wells. The depths of the new Type III wells will be approximately 35 feet. The new telescoping wells will be installed to total depths of approximately 60 feet. Drilling augers/hammers will be decontaminated using a pressure washer and alconox cleanser between each boring. All soil cuttings, drilling mud, purge water, decontamination water and development water will containerized and transported to a licensed disposal facility for manifested disposal. A ground water sample will be collected from each permanent monitoring well and submitted for laboratory analyses in accordance with the guidelines set forth in the QAPP. Top-of-casing elevations will be surveyed for each newly installed monitoring well and all existing wells by a licensed SC Professional Surveyor. Slug tests will be conducted on two of the Type III monitoring wells and one of the telescoping wells. **No work will be started at the site until access agreements from adjoining property owners and/or SCDOT encroachment agreements are obtained.**

2. ***The work will begin within*** 10 business days ***after the necessary right-to-enter agreements are obtained and sampling should be complete by*** 10 days after well installations are complete.

3. ***Are there are time or resource constraints?*** Yes ***Include those factors that may interfere with the tentative schedule.*** Inclement weather, personnel availability, drilling services availability, equipment failures, could possibly bring changes such as delay of final report submittal, to the tentative schedule.

A6 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.

Carolina Country Convenience, 1908 Highway 601 North, Pageland, Chesterfield County, SC (see attached Figures 1 & 2)

A7 Certification

The Following Laboratory(ies) will be used for this Project:

Commercial Lab(s)

Full Name of the Laboratory Accutest
Name of Lab Director Harry Behzadi
SC DHEC Certification Number 96038001
Parameters this Lab will analyze for this project:
Ground Water:
BTEX, MTBE, naphthalene, 1,2-DCA and 8 Oxygenates by Method 8260
EDB by Method 8011
Lead by Method 6010

Soil:
BTEX, MTBE and naphthalene by Method 8260
PAHs by Method 8270
Lead by Method 6010

TPH by Method 5030
TOC by the Walkley-Black Method
Grain Size – ASTM D422 – **Analyses performed by Accutest**

Full Name of the Laboratory_____
Name of Lab Director_____
SC DHEC Certification Number_____
Parameters this Lab will analyze for this project:
Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

A8 Documents and Records

Personnel will receive the most current version of the QAPP Addendum via:
(Check all that apply)

__X__US Mail ____Courier __X__Hand delivered

Other (please specify):____e-mail_____

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Field Notes	GRI	Hardcopy and electric	20 Years	Yes – Computer and GRI library
Chain of Custody	Accutest	Hardcopy and electric - EDD	10 Years	Yes - Electronic
Chain of Custody	GRI	Hardcopy and electric	20 Years	Yes – Computer and GRI library
Report	GRI	Hardcopy and electric	20 Years	Yes - Computer and GRI library
Lab Data	Accutest-Orlando	Hardcopy and electric - EDD	10 Years	Yes - Electronic

Table 2A Record Identification, Storage, and Disposal

Section B Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
QAPP Preparation	12/16/2013	12/18/13	In Progress
QAPP Approval	1 business day after submittal to DHEC	30 calender days from date received by DHEC	Assume 30 day turnaround
MW and Soil Boring Installation	10 days from receipt of access agreements	1 – 2 weeks after receipt of access agreements	
Ground Water Sampling	10 days from completion of monitoring well installations	11 days from completion of monitoring well installations	
Report Preparation	15 days from receipt of lab report	3 – 4 weeks from receipt of lab report	

Table 3A 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 — 11 (SB- SB-8, 1 duplicate, field blank & 1trip blank) **as shown on the attached Figure 2.**

Ground Water from monitoring wells — 21 (MW-1 and new wells MW-2 through MW11 and TW-1 through TW-3) and (MW-10, MW-20, MW-20D, MW-21, MW-21D, MW-22 and MW-22D from the Eddie's Pitt Stop release as shown on attached Figure 2)

From Drinking/Irrigation water wells — PW-1 & PW-2

From surface water features — _____

Duplicate samples — 2

Field Blanks 1

Trip Blanks 1

Total number of Water samples 27

The samples will be (check as many as apply): ___Homogenized __X__ Grab ___Split

All samples will be "Grab"

If homogenized or split are checked please indicate how will it be done and the equipment needed.

If decontamination procedures differ from Appendix H, please provide details.

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), or electricity to run sampling equipment.

REDI with auger rig/probe for field screening point installation
REDI with auger rig for monitoring well installation
HERR for disposal of purge water and soil cuttings

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
Drill Rig	Repair by REDI	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak
YSI 556 Meter	Repair @ Enviro Equipment	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak
Hanna turbidity meter	Repair @ Enviro Equipment	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak

Water level meter	Repair @ Enviro Equipment	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak
Interface probe	Repair @ Enviro Equipment	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak

Table 4A 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?*** After each sample is collected, it is placed in an ice filled cooler that is secured with the sampling personnel's company vehicle. Upon completion of sampling activities, sampling personnel sends the secured cooler and chain of custody via Fed-Ex to the laboratory. Samples are generally sent out via Fed-Ex at the end of each day's sampling event. Or, if possible, the samples/cooler are taken directly to the laboratory's service center where possession of the samples is taken by the lab. Samples requiring analyses that have short hold times are always sent out the same day the samples were collected. Even if short hold times are not a concern, collected samples are never kept in the sampler's/contractors possession for more than 24 hours.

2. ***If sample preservation procedures differ from the UST Programmatic QAPP, please provide details.***

3. ***If chain of custody procedures differ from the UST Programmatic QAPP, please provide details.***

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:***

Parameter	Method Referenced	Comments
BTEX, MTBE and Naphthalene (soil)	8260B	

PAHs (soil)	8270	
Lead (soil)	6010	
TPH (soil), GRO/DRO	8015D	
TOC (soil)	9060A	
BTEX, MTBE, 1,2 – DCA, naphthalene, (water)	8260B	
8 Oxygenates	8260B-oxy	
Lead (water)	6010	
EDB (water)	8011	
pH	---	
Dissolved Oxygen	---	
Conductivity	---	
temperature	---	
turbidity	---	

Table 5A 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.**

2. 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).

B5 Quality Control Requirements:

All QC will follow the requirements laid out in Section B5 of the UST Programmatic QAPP. If procedures for QC differ from the UST.

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. Not the availability and location of spare parts.

Instrument	Serial Number	Type of Maintenance	Frequency	Person responsible
YSI 556	GRI1	Calibration	Prior to each	Michael Senglaub, Hanna Kahrmann-

			sampling event	Zadak
Hanna Turbidity Meter	GRI1	Calibration	Prior to each sampling event	Michael Senglaub, Hanna Kahrmann-Zadak
Water Level Indicator	GRI1	Replace batteries	As needed	Michael Senglaub, Hanna Kahrmann-Zadak
Interface Probe	GRI1	Replace Batteries	As needed	Michael Senglaub, Hanna Kahrmann-Zadak
Agilent 5973 of 5975, OI analytical purge and trap system	Multiple units	Leak check, gas pressure check, detector check, septa replacement	As warranted by passing instrument QC and batch QC	Bench Analyst
Agilent 6890, Agilent 7683 Autosampler	Multiple units	Leak check, gas pressure check, detector check, septa replacement	As warranted by passing instrument QC and batch QC	Bench Analyst

Table 6A Instrument and Equipment Maintenance

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	Serial Number	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA
YSI 556	GRI1	Manufacturer's Directions	Prior to the sampling event	Within limits established by manufacturer	Send to manufacturer or Enviro-Equipment	Michael Senglaub, Hanna

Instrument	Serial Number	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA
						Kahrmann-Zadak
Hanna Turbidity Meter	GRI1	Manufacturer's Directions	Prior to the sampling event	Within limits established by manufacturer	Send to manufacturer or Enviro-Equipment	Michael Senglaub, Hanna Kahrmann-Zadak
Agilent 5973 or 5975 equipped with OI analytical purge and trap system	NA	Calibrate with series of standards as described in SW-846 8260B, internal standard calibration procedure	Initial calibration performed as necessary and verified daily (CCV)	As described in SW-846 8260B method	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Bench Analyst
Agilent 6890, Agilent 7683 Autosampler	NA	Calibrate with series of standards as described in 8011 internal standard calibration procedure	Initial calibration performed as necessary and verified daily (CCV)	As described in 8011 method	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Calibrate with series of standards as described in SW-846 8260B, internal standard calibration procedure

Table 7A 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. If procedures for storage, handling or transport of supplies/consumables differ from the UST Programmatic QAPP, please provide details.

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.,
3. Provide its relevance to the project.
4. Indicate the justification criteria for use of these data sources and/or models.

Data Source	Used for	Relevance	Justification for use in this project	Comments
Computer database and GRI library	Historical ground water elevation and quality data		For showing contaminant concentration and ground water flow trends	
SCDHEC FOI	Historical ground water elevation and quality data		For showing contaminant concentration and ground water flow trends	

Table 8A Non-Direct Measurements

5. Identify key resources/support facilities needed.

B10 Data Management

1. Describe the data management scheme from field to final use and storage.
   GRI orders lab kit from Accutest
   Accutest ships kit to GRI office (if done directly from Orlando facility) or courier delivers kit to GRI office from service center
   Field personnel collects lab samples and returns lab samples and field notes to office.
   Accutest courier picks up samples and signs COC. (Alternately - GRI ships coolers to Accutest Southeast)
   Samples are analyzed as per the COC and SOPs.
   Lab report is emailed to Project manager. Data is checked if usable is populated into tables for report deliverable.
   Data is stored at lab and in GRI office (electronic and hard copies).

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?

   Laboratory - CoC are scanned into PDF upon log-in, subsequent changes in tests ordered (if any) are made via formal request. Computer records are incrementally backed up through LAN every 20 minutes and fully backed up once a week.

   Field Staff – Field notes are recorded in bound, All-Weather Field Books (Model No. 540F) with black or blue ink. Original field notes are reviewed by a senior geologist and project manager upon return of field staff to the GRI office then scanned into a PDF file and saved to working files stored at GRI.

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.

   Every piece of analytical data is reviewed once by bench analyst upon initial data processing and undergoes secondary review by section supervisor or senior analyst prior to release to the clients. Third level review performed by QA staff at 10-15% of data.

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).

   Raw analytical data is incrementally backed up; full automatic backup occurs once a week and tapes are produced in duplicates. One copy stored off-site. Bench run logs, CoC and other hand-written records are scanned into PDF files; sample reports are converted into PDF files and stored on local servers. Logbooks, Certificates of Analysis, etc. are secured on-site in lockable storage.

   As with field notes, GRI reports are converted into PDF files and stored on the GRI server. Hard copies of reports are stored in the GRI library.

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.* **The samples will be collected by the on-site supervisor. The on-site supervisor will periodically be audited/observed by a senior GRI personnel such at Terry D. Kennedy or John M. Brown. Auditors will check to see if the on-site supervisor is properly calibrating instrumentation in**

the field, determine if correct readings are being collected when purging wells, ensure the sample kits are properly labeled and preserved, ensure CoCs are completed in accordance with the QAPP and ensure that all waste materials (purge and decon water) are properly containerized for disposal. *Will this person have the authority to stop work if severe problems are seen?* **Yes**

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?* **1. GRI's Contract QA Manager (John M. Brown. P.G.) will review the QC Data Summary associated with each Accutest Report to determine that all QA/QC requirements of the laboratory's SOP are met. 2. Accutest Laboratories Southeast participates in the semiannual analyses of PT samples in order to maintain primary state certification and for the benefit of other states' certification program. Accutest Laboratories Inc. maintains corporate purchasing contract with ERA, Waters Company, and results are on file with DHEC, lab certification group** *When or how often are these done?* **1. Upon receipt of each laboratory report. 2. Semi-annually** *Who will the results be given to and who has the ability to stop work if problems are severe?* **1. GRI's Contract QA Manager, Mr. John M. Brown. 2. Accutest Lab Director.**

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).

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
November 1, 2013

Facility Name: Carolina Country Convenience

GRI Proposal 13-646

UST Permit #: 02261 **Cost Agreement #:** _____

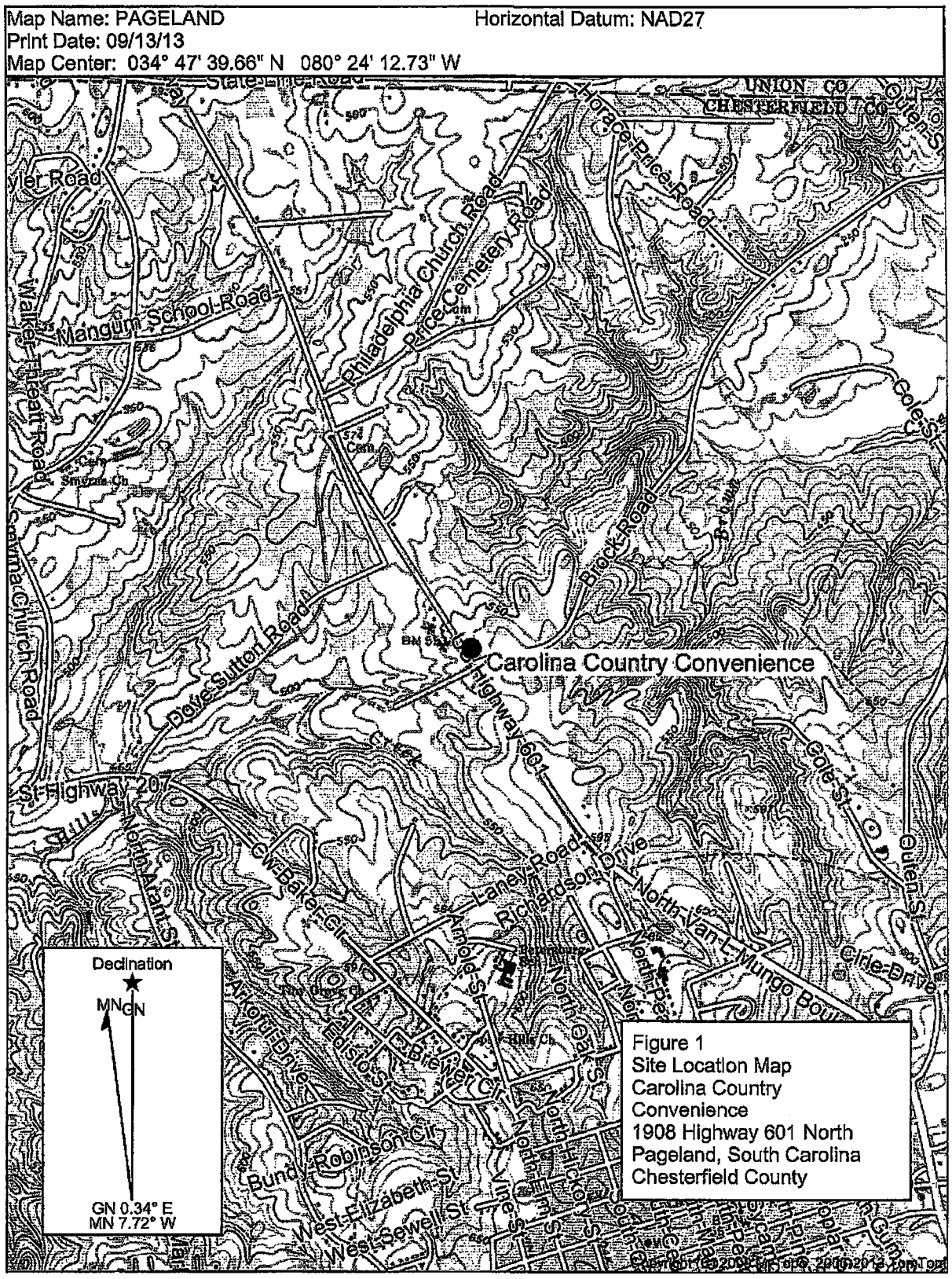
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan		each	$150.00	$0.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Apper	1	each	$250.00	$250.00
2. A1. **Receptor Survey** *		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey	1	each	$1,040.00	$1,040.00
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	2	each	$1,020.00	$2,040.00
B1. Personnel	5	each	$423.00	$2,115.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
A1. Standard		per foot	$7.40	$0.00
C1. Fractured Rock	560	per foot	$20.20	$11,312.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less	560	per foot	$3.10	$1,736.00
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	180	per foot	$31.80	$5,724.00
D1. Rock Drilling	350	per foot	$26.80	$9,380.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
H1. Recovery Well (4" diameter)		per foot	$30.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	21	er well/recept	$60.00	$1,260.00
B1. Air or Vapors		per recepto	$12.00	$0.00
C1. Water Supply	2	er well/recept	$22.00	$44.00
D1. Groundwater No Purge or Duplicate	2	er well/recept	$28.00	$56.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00

H1. Field Blank	1	each	$24.60	$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	27	per sample	$122.00		$3,294.00
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	26	per sample	$16.00		$416.00
F1. EDB by EPA 8011	26	per sample	$45.20		$1,175.20
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.	11	per sample	$64.00		$704.00
R1. PAH's	10	per sample	$64.04		$640.40
S1. 8 RCRA Metals (total lead)		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)	1	per sample	$40.00		$40.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer	2	per sample	$104.00		$208.00
X1. Total Organic Carbon	1	per sample	$30.60		$30.60
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*	3	per test	$191.00		$573.00
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	1	each	$100.00		$100.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	450	gallon	$0.56		$252.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal	3.5	ton	$60.00		$210.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. **Miscellaneous (attach receipts)**					
Total Lead Method 6010		each	$0.00		$0.00
for 7 soil samples as required in QAPP	7	each	$25.00		$175.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
A2. 24-hour Event*		each	$3,515.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F. Effluent Disposal		gallon	$0.30		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Management	10%	percent	$42,799.80		$4,279.98
TOTAL					$47,079.78

*The appropriate mobilization cost can be added to complete these tasks, as necessary


Map Name: PAGELAND
Horizontal Datum: NAD27
Print Date: 09/13/13
Map Center: 034° 47' 39.66" N 080° 24' 12.73" W
State Line Road
UNION CO
CHESTERFIELD Co
Horace Price Road
Philadelphia Church Road
Price Cemetery Road
Mangum School Road
Walker Heart Road
Salvia Church Road
Dovie Sutton Road
Block Road
Cole St
Queen St
Carolina Country Convenience
Highway 601
St Highway 207
North Van St
C W Baker Cir
Laney Road
Richardson Drive
North Van St
Mungo Boul
Circle Drive
Arkon Drive
Edisto St
Bundy Robinson Cir
West Elizabeth St
West Sewell St
Declination
MN GN
GN 0.34° E
MN 7.72° W
Figure 1
Site Location Map
Carolina Country
Convenience
1908 Highway 601 North
Pageland, South Carolina
Chesterfield County
SCALE 1:24000
0 1000 2000 3000 4000 5000 6000
FEET
Carolina Country Convenience
* WATER SUPPLY WELLS

LEGEND

TYPE II MONITORING WELL

DISPENSER

PROPOSED SOIL BORING LOCATIONS

N

Geological Resources, Inc.

0 10 20 40

(IN FEET)
1 inch = 20 ft

SITE MAP

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — Incident # 02261

Date:	09/17/13	Drawn by:	ACB	Figure:	2

Accutest Laboratories Southeast

Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # PAGE_____OF_____

Accutest Quote # SKIFF#

Client / Reporting Information	Project Information	Analytical Information	Matrix Codes
Company Name	Project Name:		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe
Address	Street		
City State Zip	City State		
Project Contact E-mail	Project #		
Phone#	Fax #		
Sampler(s) Name(s) (Printed)	Client Purchase Order #		

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

ACCUTEST
2828-C QUEEN CITY DR
CLT NC 28203

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1		2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

Hornosky, Minda< hornosms@dhec.sc.gov>

RE: Carolina Country Convenience #02261

1 message

Scott Ball <wsb@geologicalresourcesinc.com> Wed, Feb 19, 2014 at 11:56 AM
To: "Hornosky, Minda" <hornosms@dhec.sc.gov>

Hi Minda

I think this is correct. Let me know if additional revisions are needed.

Thanks!

From: Hornosky, Minda [mailto:hornosms@dhec.sc.gov]
Sent: Tuesday, February 18, 2014 1:57 PM
To: Scott Ball
Subject: Re: Carolina Country Convenience #02261

Scott,

I need one more revision.

Section A5, with some small wording changes, line 9 should be switched with line 10, so it reads: "The unpreserved 40 ml vial is filled half full of the groundwater sample to be screened and the cap then closed. The sample will then be screened by inserting the tip of the PID analyzer into the septum of the vial."

Please e-mail the changed page at your earliest convenience.

Thanks,

Mindat

On Tue, Feb 18, 2014 at 11:40 AM, Scott Ball <wsb@geologicalresourcesinc.com> wrote:

Thanks Minda!

From: Hornosky, Minda [mailto:hornosms@dhec.sc.gov]
Sent: Tuesday, February 18, 2014 11:40 AM

To: Scott Ball
Subject: Re: Carolina Country Convenience #02261

the revisions were submitted January 15 and the approval will go out soon. Best I can tell you right now.

On Mon, Feb 17, 2014 at 11:25 AM, Scott Ball <wsb@geologicalresourcesinc.com> wrote:

Hi Minda

Just checking on the status of a QAPP submitted for this site on December 18, 2013. The work proposed is for a Tier II. Any idea when this work might be approved?

Thanks

Scott

Carolina Country Convenience; 02261, A5 revision, 2-19-14.pdf
47K

MW-21D, MW-22 and MW-22D) associated with the Eddie's Pitt Stop release are located on the subject site in the general area of MW-1

The release is currently being assessed to monitor contaminant concentrations in the ground water.

Please answer the following: Does this project fall under UST or Brownfields area?

UST

A5 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).***

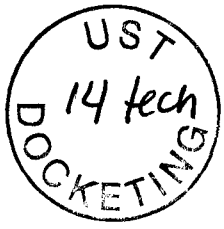
   SOW will include the installation of two soil borings in the UST area, five soil borings in the areas occupied by product lines and dispensers and one back ground boring. **Approximate soil boring locations are shown on the attached Figure 2**. Boring depths will range from 10 feet to 25 feet or to the water table. Soil samples will be collected from each of the borings and submitted for laboratory analyses in accordance with the guidelines set forth in the QAPP. Installation of as many as 15 field screening points to delineate the horizontal and vertical extent of the ground water contaminant plume. The depths of the screening points will be from 30 feet to 56 feet. Ground water samples collected from the screening points will be scanned with a PID for the presence of volatile organic compounds. An unpreserved 40 ml vial is filled half full of the ground water sample to be screened and the cap then closed. The sample will then be screened by inserting the tip of the PID analyzer into the septum of the vial. A PID reading is then collected and recorded. Based on the field screening results, as many as an additional 10 Type III monitoring wells and three telescoping well will be installed. Samples will be collected for grain size analyses during the installation of the one telescoping well and one Type III well. The proposed locations of the permanent monitoring wells will be presented to the SCDHEC for approval prior to installing the wells. The depths of the new Type III wells will be approximately 35 feet. The new telescoping wells will be installed to total depths of approximately 60 feet. Drilling augers/hammers will be decontaminated using a pressure washer and alconox cleanser between each boring. All soil cuttings, drilling mud, purge water, decontamination water and development water will containerized and transported to a licensed disposal facility for manifested disposal. A ground water sample will be collected from each permanent monitoring well and submitted for laboratory analyses in accordance with the guidelines set forth in the QAPP. Top-of-casing elevations will be surveyed for each newly installed monitoring well and all existing wells by a licensed SC Professional Surveyor. Slug tests will be conducted on two of the Type III monitoring wells and one of the telescoping wells. **No work will be started at the site until access agreements from adjoining property owners and/or SCDOT encroachment agreements are obtained.**

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment



MICHAEL WALLACE
CAROINA COUNTRY LLC
1908 HWY 601 N
PAGELAND SC 29728-8292

FEB 2 7 2014

Re: Tier II Assessment Directive
Carolina Country Convenience, 1908 Hwy 601 N, Pageland, SC
UST Permit # 02261; CA # 47051; MWA #UMW-25404
Release # 2 Reported October 11, 2012
Initial Ground Water Assessment Report received January 4, 2012
Site Specific QAPP Contractor Addendum Revision 2 received February 19, 2014
Chesterfield County

Dear Mr. Wallace:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report and site specific QAPP Addendum submitted on your behalf by Geological Resources, Inc. The report indicated that petroleum Chemicals of Concern (CoC) are present in the soil and groundwater at concentrations that exceed Risk-Based Screening Levels (RBSLs) and two water supply wells are within 1,000 feet of the facility. In order to determine the extent of the CoCs, a Tier II Assessment is necessary. All work must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 2.0 and all applicable regulations. The UST QAPP is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Implementation of the assessment may proceed immediately upon receipt of this correspondence. **Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.** Monitoring well approval and a signed site specific QAPP Addendum Title and Approval Page is enclosed. A copy has also been provided you site rehabilitation contractor. Cost agreement number 47051 has been approved for the monitoring well installation of up to 15 temporary, 10 shallow and 3 deep monitoring wells to define the horizontal and vertical extent of the plume, sampling all of the monitoring wells, and all water supply wells and surface water bodies within 1000 feet of the site. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, 8 oxygenates, 1,2-DCA, lead, and EDB. Water supply wells and surface water should be analyzed for BTEX, naphthalene, MtBE, 8 oxygenates, 1,2-DCA, and EDB.

The Tier II Assessment Report, contractor checklist and invoice are due within 90 days from the date of this letter. Cost agreement has been approved for the amount shown on the enclosed cost agreement form.

Please note the number of laboratory analyses for lead has been changed to 25. Analysis of the trip blank and field blank is not required for lead, and the proposed Tier II Risk Evaluation is not needed.

By law, the SUPERB Account cannot compensate any costs that are not pre-approved. The SUPERB Act, Section 44-2-110(4) and Section 44-2-130 state that no costs will be allowed unless prior approval from the Agency is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated costs must be pre-approved by the Agency for the costs 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 to audit project records at any time during the project or after completion of work. All work must be conducted by well drillers, laboratories, and contractors that are licensed by the state of South Carolina and the Agency. South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied.

According to Division records, the release at the facility was reported to the Agency on February 23, 2009. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first $25,000 of site rehabilitation costs. Please provide proof of costs that will be applied to the deductible with the invoice. Acceptable proof of payment for deductible costs include a copy of the cancelled check (front and back) that made payment to your contractor or a signed notarized statement by your site rehabilitation contractor for the amount that was paid directly to your contractor. You or your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for preapproved costs that exceed the $25,000 deductible. An interim well drilling invoice may not be submitted for this scope of work as the deductible has not been met.

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Division by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

The Division, because of unnecessary dilution, cannot make decisions if the reporting limit of individual petroleum CoC exceeds Risk-Based Screening Levels (RBSLs,) encourages the use of 'J' values as necessary so the appropriate action can be determined for a release. Note that the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSLs.

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

On all correspondence regarding this site, please reference UST Permit number 02261. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-7542.

Sincerely,

Minda Hornosky, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (CA)
Monitoring Well Approval (MWA)
Signed Site Specific QAPP Contractor Addendum Title and Approval Page

cc: Geological Resources, Inc., 2301 Crown Point Executive Drive, Suite F, Charlotte, NC 28227 (with enc.)
Technical File (with enc.)

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 Form

Approval is hereby granted to:	Geological Resources, Inc.
On behalf of:	Carolina Country LLC
UST Permit #:	02261
Facility:	Carolina Country Convenience 1908 Hey 601 N., Pageland, SC
County:	Chesterfield

This approval is for the installation of up to 15 temporary and 13 permanent (10 shallow and 3 pit-cased deep) monitoring wells. The monitoring wells are to be installed in approved locations 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 Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. 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 Minda Hornosky (tel: 803 898-7542 or e-mail: hornosms@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: February 19, 2014 **Approval #: UMW-25404**

Minda Hornosky, Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

Geological Resources, Inc.
S.C. Rehabilitation Contractor #74
Carolina Country Convenience
GRI Proposal No. 13-646
QAPP Revision 0
December 18, 2013

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
Carolina Country Convenience – UST Permit No. 02261

1908 Highway 601 North, Pageland, Chesterfield County, South Carolina

Prepared by: W. Scott Ball

Geological Resources, Inc.
SC Site Rehabilitation Contractor No. 74

Date: 12/18/2013

Geological Resources. Inc.

Approvals

Minda Homosky SC DHEC Project Manager	Signature	Date 2/19/14
John M. Brown, PG - GRI Contractor QA Manager	Signature	Date 12/17/13
Scott Ball - GRI Site Rehabilitation Contractor	Signature	Date 12/17/13
Harry Behzadi Laboratory Director	Signature	Date 12/17/13

Approved Cost Agreement 47051

Facility: 02261 CAROLINA COUNTRY CONVENIENCE
HORNOSMS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		C1	TIER 11/COMP.PLAN/QAPP APP B	1.0000	250.00	250.00
03 COMPREHENSIVE SURVEY						
		A1	COMPREHENSIVE SURVEY	1.0000	1,040.00	1,040.00
04 MOB/DEMOB						
		A1	EQUIPMENT	2.0000	1,020.00	2,040.00
		B1	PERSONNEL	4.0000	423.00	1,692.00
06 SOIL BORINGS (DRILLED)						
		C1	FRACTURED ROCK	560.0000	20.20	11,312.00
08 ABANDONMENT						
		A1	ABANDONMENT 2" DIA OR LESS	560.0000	3.10	1,736.00
09 WELL INSTALLATION						
		C1	TELESCOPING	180.0000	31.80	5,724.00
		D1	ROCK DRILLING	350.0000	26.80	9,380.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	21.0000	60.00	1,260.00
		C1	WATER SUPPLY	2.0000	22.00	44.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	2.0000	28.00	56.00
		H1	FIELD BLANK	1.0000	24.60	24.60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	27.0000	122.00	3,294.00
		E1	LEAD	25.0000	16.00	400.00
		F1	EDB BY 8011	26.0000	45.20	1,175.20
	SOIL SOIL	Q1	BTEX+NAPTH	11.0000	64.00	704.00
		R1	SOIL PAH'S	10.0000	64.04	640.40
		U1	TPH-DRO (3550C - 8015C)	1.0000	40.00	40.00
		W1	GRAIN SIZE / HYDROMETER	2.0000	104.00	208.00
		X1	TOTAL ORGANIC CARBON	1.0000	30.60	30.60
12 AQUIFER CHARACTERIZATION						
		B1	SLUG TEST	3.0000	191.00	573.00
17 DISPOSAL						
		AA	WASTEWATER	450.0000	0.56	252.00
		C1	SOIL TREATMENT DISPOSAL	3.5000	60.00	210.00
18 MISCELLANEOUS						
			LEAD ANALYSIS FOR SOIL SAMPLES	7.0000	25.00	175.00
19 RPT/PROJECT MNGT & COORDINATIO						
			PERC REPORT PREPARATION	0.1000	42,260.80	4,226.08
					Total Amount	46,486.88

Geological Resources, Inc.

UST
JAN 2 9 2015
PROGRAM

UST
15 tech
DOCKETING

January 26, 2015

Ms. Minda Hornosky
SCDHEC-Underground Storage Tank Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Tier II Assessment Report
Carolina Country Convenience
1908 Highway 601 North
Pageland, Chesterfield County, SC
UST Permit No: 02261
CA# 47051
GRI Project No: 3289

Dear Ms. Hornosky,

Please find enclosed the referenced report for the above mentioned site. If you have any questions, please do not hesitate to contact Scott Ball at (704) 698-1223.

Sincerely,
Geological Resources, Inc.

Faith W. Levering
Project Coordinator

Enclosure

cc: Mr. Mike Wallace, Carolina Country, LLC.
Ms. Catherine Pierce, Vertex
file

COPY

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

TIER II ASSESSMENT REPORT
CAROLINA COUNTRY CONVENIENCE
1908 HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
CHESTERFIELD COUNTY
UST PERMIT #02261
CA #47051
GRI PROJECT #3289

Prepared For:

Michael Wallace
Carolina Country LLC
1908 Highway 601 North
Pageland, South Carolina 29728

Prepared By:

Geological Resources, Inc.
3502 Hayes Road
Monroe, North Carolina 28110
Class 1 UST Site Rehabilitation Contractor # 74

January 26, 2015

Johanna M. Lesch, P.G.
License No. 2576

W. Scott Ball
Senior Project Manager

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Figure 2: Site Vicinity Map
Figure 3: Site Map
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Figure 9: Benzene Isoconcentration Map (11/18 – 11/20/14)
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Figure 11: Cross Section A-A'
Figure 12: Cross Section B-B'

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Table 1: Summary of Adjacent Property Owner Information
Table 2: Summary of Water Supply Well Owner Information
Table 3: Summary of Laboratory Analytical Results – Soil Samples
Table 4: Summary of Field Screening Results
Table 5: Summary of Ground Water Elevation Data
Table 6: Summary of Results – Slug Test Analysis
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APPENDICES

Appendix A: Professional Survey
Appendix B: Chesterfield County Tax Information – Adjoining/Adjacent Property Owners
Appendix C: Access Agreements
Appendix D: Subsurface Logs – Soil Borings
Appendix E: Laboratory Analytical Report – Soil Samples
Appendix F: QAPP Appendix B
Appendix G: Subsurface Logs – Field Screening Points
Appendix H: Well Construction Records/Subsurface Logs
Appendix I: Disposal Manifest
Appendix J: Slug Test Data
Appendix K: Laboratory Analytical Report - Ground Water Samples
Appendix L: Ground Water Sampling Data Sheets
Appendix M: Contractor Checklist

1. INTRODUCTION

1.1 Project Background

This report presents the results of Tier II assessment activities conducted at the Carolina Country Convenience site (UST Permit #02261) in Pageland, Chesterfield County, South Carolina. The activities were conducted by Geological Resources, Inc. (GRI) in accordance with the scope of work directed in February 27, 2014 correspondence from the South Carolina Department of Health and Environmental Control (SCDHEC). The cost agreement (CA) number assigned to the proposal for completion of the assessment activities is CA No. 47051.

The site is located at 1908 Highway 601 North in Pageland, Chesterfield County, SC. The site is currently operating as convenience store/petroleum retail facility/used auto sales called Carolina Country Convenience. The area surrounding the site is mixed use to include residential, agricultural and limited business. Three gasoline underground storage tanks (USTs) and associated piping and dispensers are currently in operation at the site. The UST system has reportedly operated at the site since February 1999. A release (#1) from the UST system was reported at the site on September 30, 2008 and closed with a notice of No Further Action on November 6, 2008. A second release was reported at the site on October 11, 2012. An Initial Ground Water Assessment (IGWA) report documenting site assessment activities was submitted to the SCDHEC in October 2013. Based on the IGWA report, both soil and ground water samples exhibited levels of contaminants of concern (COCs) above the risk-based Screening Levels (RBSLs). Two water supply wells were identified within 1,000-feet of the source area during IGWA activities. Municipal water is available to and used by the majority of properties in the area. Based on this data, a Tier II Assessment was directed at the site.

1.2 Regional Geology/Hydrogeology

The site is located in the Carolina Slate Belt Physiographic Province of meta-volcanic rocks characterized by meta-argillite and metamorphosed mudstone. Locally, the metamudstone is thin to thick-bedded with common axial-plane cleavage. This mudstone can be friable to competent when encountered in drilling operations. The friable metamudstone can be penetrated with auger drilling and/or direct-push techniques to varying shallow depths. Ground water flow through the meta-mudstone occurs in fractures along cleavage planes. The potentiometric surface in this region can vary from 20 to 30 feet in depth. Ground water encountered during drilling in this area is based upon intersecting water bearing fractures rather than a water table surface. Depths to water in shallow wells may be measured at 20-30 feet below grade level. However, the water bearing zones may be more than 35-40 feet below grade.

1.3 Receptor Survey

The Carolina Country Convenience site is 1908 Highway 601 North in a rural, agricultural area outside the town limits of Pageland, Chesterfield County (**Figure 1**). The site is currently a petroleum retail facility, convenience store and used car sales business. The site is bordered by US Highway 601 to the west, commercial and agricultural properties to the west and agricultural property to the south. Brock Road and a residential property are located to the south/southeast or the site, a residential property to the

east and agricultural properties to the east/northeast and north. The subject site and all of Chesterfield County is zoned General Development (GD) according to the Chesterfield County Building and Codes Department. Zoning maps or other zoning information were not available for review. Public water is available to all properties in the area. Three water supply wells (PW-1 through PW-3) were identified within a 1,000-foot radius of the source area during the Tier II assessment activities. PW-1 is currently out-of-service and located within a locked, fenced area at the former Eddies Pitt Stop site (#18871). PW-2 is not in service and the residence where the well is located is using municipal water. PW-3 is currently used as a source of potable water. One surface water body, a farm pond, is located approximately 915 feet to the southwest of the source area. No underground structures were identified within 1,000 feet of the site. Underground utilities (gas, water and sewer lines) are located along Highway 601 on the west side of the site. Fiber optic lines are also located along Highway 601 on the western edge of the site. A Site Vicinity Map showing adjoining properties, the locations of surface water bodies and water supply wells has been included as **Figure 2**. The locations of structures and utilities on-site and in the vicinity of the site are shown on **Figure 3**. The names and addresses of adjacent property owners are summarized in **Table 1**. A signed and sealed copy of the professional site survey completed for the site is included as **Appendix A**. Chesterfield County Tax Information for the subject site and all adjoining/adjacent properties has been included as **Appendix B**. GRI requested access to three of the adjoining/adjacent properties during the Tier II assessment activities. One of the property owners, Sam Starnes of Circle S Ranch that owns the adjoining property (030-000-000-005) to the north and east of the site would allow access for field screening but would not grant access to install permanent monitoring wells on that property. Mr. Phillip Bundrick, who owns the adjacent property (030-000-000-008) to the south of the subject site would allow no access to his property. Mr. James Belk granted access to his property (019-000-000-038) across Highway 601 to the south and west of the subject site. A SCDOT Encroachment Agreement was obtained to install screening points and monitoring wells along Brock Road to the south of the subject site. Copies of all access agreements submitted to the adjoining/adjacent property owners and a Right-of-Way agreement with the South Carolina Department of Transportation are provided in **Appendix C**.

2. FACILITY INFORMATION

- **Facility Name:** Carolina Country Convenience
- **Location:** 1908 Highway 601 North
Pageland, Chesterfield County, SC 29728
- **UST Permit No.** 02261
- **Land Use:** Commercial
- **Property Owner:** Wilson, Inc.
Post Office Box 1839
Pageland, SC 29721
(803) 283-8468
- **UST Owner/Operator:** Carolina Country Convenience
1908 Highway 601 N.
Pageland, SC 29728

(843) 672-5527

- **Site Rehabilitation Contractor:** Geological Resources, Inc.
  3502 Hayes Road
  Monroe, North Carolina 28110
  (704) 845-4010
  Class 1, Certification Number 74

- **Drilling Contractor:** Michael Ransier
  1 Piney Point
  Whispering Pines, North Carolina 28327
  (910) 690-6688
  Certification Number 1152-A

- **Laboratory:** Accutest Laboratories - Southeast
  4405 Vineland Road, Suite C-15
  Orlando, FL 32811
  (407) 425-6700
  State Certification Number: 96038001

Release Information:

- **Date Discovered:** October 11, 2012
- **Estimated Amount of Release:** Unknown
- **Source of Release:** Leaking UST System
- **UST Size/Contents:** One 10,000-gallon gasoline UST, and two 6,000-gallon gasoline USTs, associated piping, and dispensers
- **Latitude:** 34.7940878° North **Longitude:** 80.4035483° West

3. ASSESSMENT INFORMATION

3.1 Assessment Activities

In order to define the extent of soil contamination in the area of the UST system, on May 12, 2014, seven soil borings (SB-1 through SB-7) were installed around the USTs, piping and dispensers at the site using direct-push technology. One background boring was also installed. Each soil boring was advanced to a total depth of 10 feet. Soil samples were collected at 5-foot intervals during the installation of borings SB-1, SB-2, SB-5 and SB-7 around the USTs. Soil samples were collected at 2-foot intervals from borings SB-3, SB-4 and SB-6, which were collected in the area of the product piping and dispensers. Each soil sample collected was screened with a PID for the presence of volatile organic compounds. The sample interval exhibiting the highest PID reading from each boring was submitted for analyses of BTEX, MTBE and naphthalene using Method 8260, PAHs using Method 8270 and lead using Method 6010. The sample from the boring that exhibited the highest PID (SB-2 (10')) reading was also submitted for analyses of Total Petroleum Hydrocarbons-Diesel Range Organics (TPR-DRO) using Method 8015C/3550C. A sample was collected from the Background boring at a depth of 10 feet and submitted for analyses of total organic carbon. Concentrations of BTEX constituents and naphthalene that exceeded the RBSLs were reported in samples SB-1 (10'), SB-2 (10'), SB-3 (2'), SB-6 (8') and SB-7 (10'). A summary of soil analytical results is presented in **Table 3**. A Soil Quality Map has been included as **Figure 4**. Subsurface soil boring logs have been included as **Appendix D** and the laboratory analytical

report for the soil samples is included as **Appendix E**. All soil sampling activities were conducted in accordance with the protocols and methodologies outlined in the QAPP Appendix B that was approved for this project by the SCDHEC. A copy of the QAPP Appendix B has been included as **Appendix F**.

In order to define the horizontal extent of ground water contamination, on May 12 and May 13, 2014, ten temporary ground water screening points (TMW-1 through TMW-10) were installed at the site using an air rotary drill rig. Field screening was required in the agricultural areas to the southwest, east and north of the subject site. However, due to those areas containing corn crops, those areas could not be accessed until October 2014. Additional screening points (TMW-11 through TMW-25) were installed and sampled between October 27 and October 29, 2014. The depths of the temporary screening points ranged from 30 to 60 feet. With the exception of TMW-10, TMW-14 and TMW-17, which were all dry, a ground water sample was collected from each screening point as well as monitoring wells 18871 MW-10, 18871 MW-17, 18871 MW-20 and 18871 MW-21 (those monitoring wells were previously installed on the subject site as part of ground water assessment activities associated with the Eddies Pitt Stop site (UST Permit #18871) located across Highway 601 to the west of the site) and the headspace was screened with a photo ionization detector for volatile organic compounds. A summary of field screening results is presented in **Table 4**. A Ground Water Screening Map has been included as **Figure 5**. Subsurface logs for the field screening points have been included as **Appendix G**. All field screening activities were conducted in accordance with the protocols and methodologies outlined in the QAPP Appendix B that was approved for this project by the SCDHEC. A copy of the QAPP Appendix B has been included as **Appendix F**.

Based on the field screening results, GRI proposed the installation of thirteen Type III monitoring wells and five telescoping monitoring wells. The proposed locations of the wells were approved by the SCDHEC prior to installation activities. Please note that GRI requested permission from Sam Starnes of Circle S Ranch that owns the adjoining property (030-000-000-005) to the north and east of the site to install permanent Type III and telescoping monitoring wells along the perimeter of that property. However, Mr. Starnes would not grant permission to install permanent monitoring wells on that property. Mr. Phillip Bundrick, who owns the adjacent property (030-000-000-008) to the south of the subject site would allow no access to his property. Mr. James Belk granted access to his property (019-000-000-038) across Highway 601 to the south and west of the subject site. A SCDOT Encroachment Agreement was obtained to install screening points and monitoring wells along Brock Road to the south of the subject site. Type III monitoring wells MW-2 through MW-14 and telescoping wells TW-1 through TW-5 were installed at the site between November 5 and November 12, 2014. The total depths of the Type III monitoring wells (MW-2 through MW-14) ranged from 30 to 42 feet and each were completed with a 5-foot screen interval as directed by the SCDHEC incident manager. Each of the Type II wells were installed using air rotary/hammer. Telescoping monitoring wells TW-1 through TW-5 were installed using air rotary/hammer. The 5" outer casings on telescoping monitoring wells TW-1 through TW-3 were set at depths of 35 feet and the wells were completed to total depths of 56 feet with 5-foot screened intervals. The 5" outer casings on telescoping monitoring wells TW-4 and TW-5 were set at depths of 40 feet and the wells were completed to total depths of 61 feet with 5-foot screened intervals. Each well was developed by bailing on the same day, and subsequent to, installation. In addition, the top-of-casing elevations for all of the new monitoring wells were surveyed by a South Carolina Professional surveyor after the well installations were completed. A copy of the professional survey is included as **Appendix A**. The locations of the existing and new monitoring wells are shown on **Figure 3**. Construction records

and subsurface logs for monitoring wells installed at the site during Tier II assessment activities have been included as **Appendix H**. All soil, drilling mud and purge water generated during Tier II assessment activities were placed in 55-gallon drums and transported to a licensed facility for disposal. The disposal manifest has been included as **Appendix I**. All well installation and ground water sampling activities were conducted in accordance with the protocols and methodologies outlined in the QAPP Appendix B that was approved for this project by the SCDHEC. A copy of the QAPP Appendix B has been included as **Appendix F**.

3.2 Site Geology/Hydrogeology

Partially weathered rock/meta mudstone (argillite) was encountered during the installation of monitoring wells at an average depth of 5-10 feet. Silts and clays overlie the meta-argillite. Weathered argillite was encountered during the installation of the monitoring wells at depths that ranged from grade to 10 feet to 25 feet. Water bearing fractures at the site varied from 20 feet to over 60 feet in depth. Therefore, the surficial aquifer at the site is a mixture of confined and semi-confined aquifers since the cleavage fractures may interconnect at depth but may also be recharged at or near the surface. Depth to water at the site should be considered a potentiometric surface rather than a water table surface. Based on information obtained during the site assessment activities, the material encountered during subsurface exploration consisted of a brown silt or clay to a depth of 10 feet in the area of the UST system and tan to red silt to a depth of approximately 5 feet grading to meta mudstone from depths of 5 to 10 feet to depths of 60 feet. Due to the screened intervals of the monitoring wells installed being set in fractured meta mudstone, no samples for grain size analyses were collected during the assessment activities.

Fourteen Type III monitoring wells (MW-1 through MW-14), five telescoping monitoring wells (TW-1 through TW-5) were gauged, purged and sampled between November 18 and November 20, 2014. In addition, four Type III monitoring wells (18871 MW-10, 18871, MW-20, 18871 MW-21 and 18771 MW-22) and three telescoping wells (18871 MW-20D, 18871 MW-21D and 18871 MW-22D) which are associated with the #18871 Eddie's Pitt Stop release and are located on the subject site were gauged, purged and sampled between November 18 and November 20, 2014. All of the monitoring wells were gauged with a water level indicator accurate to 0.01 feet. All of the monitoring wells sampled were purged using dedicated polyethylene bailers prior to sampling. No free product was measured in the monitoring wells.

The depths to ground water in the Type III monitoring wells at the site, measured on November 18, 2014, ranged from 19.70 feet to 33.30 feet below the top of casings. Depths to ground water in the telescoping wells ranged from 18.68 to 27.53 feet. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 76.28 to 80.33 feet. Based on this data, the general direction of ground water flow was toward the east-southeast. The average horizontal hydraulic gradient across the northern portion of the site was approximately 0.06 feet/foot. The vertical hydraulic gradients calculated for paired wells MW-9/TW-3, MW-13/TW-5 and MW-14/MW-4 were approximately 0.0042 feet/foot downward, 0.00091 feet/foot upward and 0.0081 feet/foot upward, respectively. A Potentiometric Surface Map based on the November 18, 2014 data for the Type III monitoring wells has been included as **Figure 6**. A Potentiometric Surface Map based on the November 18, 2014 data for the telescoping wells has been included s **Figure 7**. A summary of ground water elevation data is presented in **Table 5**. Slug tests were conducted using monitoring wells MW-11,

MW-14 and TW-4 on November 20, 2014. The hydraulic conductivity calculated using the Bouwer and Rice Method was 7.78 x 10^{-6} feet per minute (MW-11), 1.266 x 10^{-5} feet per minute (MW-14) and 2.12 x 10^{-3} feet per minute (TW-4). The seepage velocity calculated using the equation $V = K(dh/dl)/n_e$ ranged from 2.24 x 10^{-3} feet per day (0.82 feet per year in MW-11), to 3.64 x 10^{-3} feet per day (1.33 feet per year in MW-14) and 0.61 feet per day (222.65 feet per year in TW-4). A summary of the results of slug test analyses conducted during the Tier II assessment is presented in **Table 6**. Calculations and raw data from the slug tests performed MW-11, MW-14 and TW-4 have been included as **Appendix J**.

3.3 Soil Quality

As previously discussed in **Section 3.1**, seven soil borings (SB-1 through SB-7) were installed around the USTs, piping and dispensers at the site using direct-push technology. One background boring was also installed. Concentrations of BTEX constituents and naphthalene that exceeded the RBSLs were reported in samples SB-1 (10'), SB-2 (10'), SB-3 (2'), SB-6 (8') and SB-7 (10'). A summary of soil analytical results is presented in **Table 3**. A Soil Quality Map has been included as **Figure 4**. Subsurface soil boring logs have been included as **Appendix D** and the laboratory analytical report for the soil samples is included as **Appendix E**. All soil sampling activities were conducted in accordance with the protocols and methodologies outlined in the QAPP Appendix B that was approved for this project by the SCDHEC. A copy of the QAPP Appendix B has been included as **Appendix F**.

3.4 Ground Water Quality

Fourteen Type III monitoring wells (MW-1 through MW-14) and five telescoping monitoring wells (TW-1 through TW-5) associated with the Carolina Country Convenience Tier II assessment and four Type III monitoring wells (18871 MW-10, 18871 MW-20, 18871 MW-21 and 18771 MW-22) and three telescoping wells (18871 MW-20D, 18871 MW-21D and 18871 MW-22D) which are associated with the #18871 Eddie's Pitt Stop release were sampled between November 18 and November 20, 2014. Field readings (pH, specific conductivity, temperature, dissolved oxygen, and turbidity) were collected from the purged wells after each well volume was removed and recorded on monitoring well sampling sheets. Ground water samples collected from the newly installed monitoring wells and the existing monitoring wells were analyzed for the following compounds: BTEX, MTBE, naphthalene, 1,2-DCA and 8 oxygenates by EPA Method 8260B, total lead using Method 6010C and EDB using Method 8011. A ground water sample was also collected from the nearby potable water supply well (PW-3) and submitted for analyses of BTEX, MTBE, naphthalene, 1,2-DCA and 8 oxygenates by EPA Method 8260B and EDB using Method 8011.

Concentrations of BTEX constituents, MTBE, naphthalene, 1,2-DCA, EDB and/or lead that exceeded the RBSLs were reported in the ground water samples collected from MW-1 through MW-4, MW-10 through MW-14, TW-3, TW-4 and TW-5, 18871 MW-10, 18871 MW-20, 18871 MW-21, 18871 MW-21D, 18871 MW-22 and 18871 MW-22D. No other concentrations of requested method constituents exceeded the RBSLs in any of the ground water samples. Detectable and/or estimated concentrations of oxygenates were reported in the ground water samples collected from MW-1, MW-10 through MW-14, TW-4, TW-5, 18871 MW-10, 18871 MW-20, 18871 MW-20D, 18871 MW-21, 18871 MW-21D, 18871 MW-22 and 18871 MW-22D. No detectable concentrations of requested method constituents were reported for the

sample collected from water supply well PW-3.

A Ground Water Quality Map based on the November 18 through November 20, 2014 sampling results has been included as **Figure 8**. Benzene and MTBE Isoconcentration Maps have been included as **Figures 9** and **10**. Cross-section locations are shown on **Figure 6**. Geologic cross-sections are included as **Figures 11** and **12**. Summaries of laboratory analytical results have been included as **Tables 7** and **8**. A complete report of laboratory analyses of the ground water samples collected during Tier II assessment activities has been included as **Appendix K**. Ground water sampling data sheets have been included as **Appendix L**.

3.5 QA/QC

All field screening, monitoring well installation, development, gauging, purging and sampling activities were conducted in general accordance with the SCDHEC Programmatic QAPP and the approved site specific Contractor Addendum. All sampling equipment (hand augers, split spoons, discrete water samplers and down-hole drilling equipment) was properly decontaminated between each sampling location. All new wells were developed, purged and sampled using disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. A duplicate soil sample, DUP A, was collected subsequent to the collection of soil sample SB-2 (10'). Laboratory results for SB-2 (10') and DUP A showed the same compounds at generally similar concentrations. Duplicate ground water samples, DUP A and DUP B were collected subsequent to the collection of samples from monitoring wells MW-1 and MW-14, respectively. Laboratory results for MW-1, MW-14, DUP A and DUP B showed the same compounds at similar concentrations. Field blanks and trip blanks were collected and/or submitted during the soil and ground water sampling activities. An estimated concentration of xylenes was reported in the field blank collected during soil sampling activities. No detectable concentrations of requested method constituents were reported in the trip blanks. A copy of the QAPP Appendix B has been included as **Appendix F**. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix M**.

4. SUMMARY AND CONCLUSIONS

- The site is located at 1908 Highway 601 North in Pageland, Chesterfield County, SC. The site is currently operating as convenience store/petroleum retail facility/used auto sales called Carolina Country Convenience. The area surrounding the site is mixed use to include residential, agricultural and limited business.
- Three water supply wells (PW-1, PW-2 and PW-3) were identified within a 1,000-foot radius of the source area. PW-1 is currently out-of-service and located within a locked, fenced area at the former Eddies Pitt Stop site (#18871). PW-2 is not in service and the residence where the well is located is using municipal water. PW-3 is currently used as a source of potable water. One surface water body, a farm pond, is located approximately 915 feet to the southwest of the source area. Public water is available to and used at the site and in the surrounding area.
- One 10,000-gallon gasoline UST, two 6,000-gallon gasoline USTs, associated product piping and dispensers are currently in service at the subject site.
- The UST system has reportedly operated at the site since February 1999. A release (#1) from the UST system was reported at the site on September 30, 2008 and closed with a notice of No

Further Action on November 6, 2008. A second release was reported at the site on October 11, 2012.

- One Type III monitoring well (MW-1) was previously installed at the site during previous IGWA activities conducted in August 2013. Several Type III and telescoping monitoring wells associated with assessment activities conducted at the Eddie's Pitt Stop site (#18871) are located on the subject site.
- Concentrations of BTEX constituents and naphthalene that exceeded the RBSLs were reported in soil samples collected in the immediate area of the UST system as part of the Tier II assessment activities conducted in May 2014.
- Field screening activities were conducted at the site in May and October 2014. No field screening activities could be conducted between the end of May and the first of October 2014 due to the presence of crops in agricultural fields where field screening was required.
- GRI requested permission from Sam Starnes of Circle S Ranch that owns the adjoining property (030-000-000-005) to the north and east of the site to install field screening points, permanent Type III and telescoping monitoring wells along the perimeter of that property. Mr. Starnes granted verbal approval to install temporary screening points on the property. However, Mr. Starnes would not grant permission to install permanent monitoring wells on that property. Mr. Phillip Bundrick, who owns the adjacent property (030-000-000-008) to the south of the subject site would allow no access to his property. Mr. James Belk granted access to his property (019-000-000-038) across Highway 601 to the south and west of the subject site. A SCDOT Encroachment Agreement was obtained to install screening points and monitoring wells along Brock Road to the south of the subject site.
- Thirteen Type III and five telescoping monitoring wells were installed at the site in November 2014.
- During the current assessment activities, depths to ground water in the Type III monitoring wells at the site ranged from 19.70 feet to 33.30 feet below the top of casings. The general direction of ground water flow was toward the east-southeast. The average horizontal hydraulic gradient was 0.06 feet/foot. The vertical hydraulic gradients ranged from 0.0042 feet/foot downward to 0.0081 feet/foot upward.
- The surficial aquifer at the site is under semi-confined and confined conditions.
- Concentrations of BTEX constituents, MTBE, naphthalene, 1,2-DCA, EDB and/or lead that exceeded the RBSLs was reported in the ground water samples collected from MW-1 through MW-4, MW-10 through MW-14, TW-3, TW-4 and TW-5, 18871 MW-10, 18871 MW-20, 18871 MW-21, 18871 MW-21D, 18871 MW-22 and 18871 MW-22D. No other concentrations of requested method constituents exceeded the RBSLs in any of the ground water samples. Detectable and/or estimated concentrations of oxygenates were reported in the ground water samples collected from MW-1, MW-10 through MW-14, TW-4, TW-5, 18871 MW-10, 18871 MW-20, 18871 MW-20D, 18871 MW-21, 18871 MW-21D, 18871 MW-22 and 18871 MW-22D. No detectable concentrations of requested method constituents were reported for the sample collected from water supply well PW-3.
- The vertical and horizontal extent of ground water contamination at the site to the southeast, south and west/southwest has been adequately defined. The vertical and horizontal extent of the contaminant plume to the northwest is considered to be delineated based on the Tier II assessment report prepared by Terracon Consultants, Inc. However, the monitoring wells located in the Highway 601 median and at the former Eddie's Pitt Stop across Highway 601 to the northwest

should be accessed and sampled during the next comprehensive sampling event conducted at the site to confirm that delineation in that area is complete. Currently, the former Eddie's Fast Stop site is fenced and locked. Attempts to contact the property owner in order to gain access to the site have been unsuccessful. The vertical and horizontal extent of the contaminant plume to the north and east of the site has not been adequately delineated and will not be until access is obtained to that property and additional assessment activities are completed.

- Based on the presence of one potable water supply well in the immediate area of the site (PW-3) continued monitoring of the ground water at the site is recommended. Additional assessment is also recommended if access to the adjoining north/east property is ever obtained. It is also recommended that the owners of PW-3 be contacted to determine if they would consider abandoning PW-3 and connecting to the municipal water source in the area. The abandonment of inactive water suppy wells PW-1 and PW-2 is also recommended if the owners of those properties will allow abandonment of those wells.

5. LIMITATIONS

This report has been prepared for the exclusive use of Mr. Michael Wallace, the owner and operator of the Carolina Country Convenience facility and the SCDHEC for specific application to the referenced site in Chesterfield County, South Carolina. The activities were conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data. Please note that certain information contained in this report was not obtained under the direct supervision of Resolve personnel. Therefore, GRI cannot verify the accuracy of this information. However, for the purpose of this report, GRI assumes the information is correct.

FIGURES

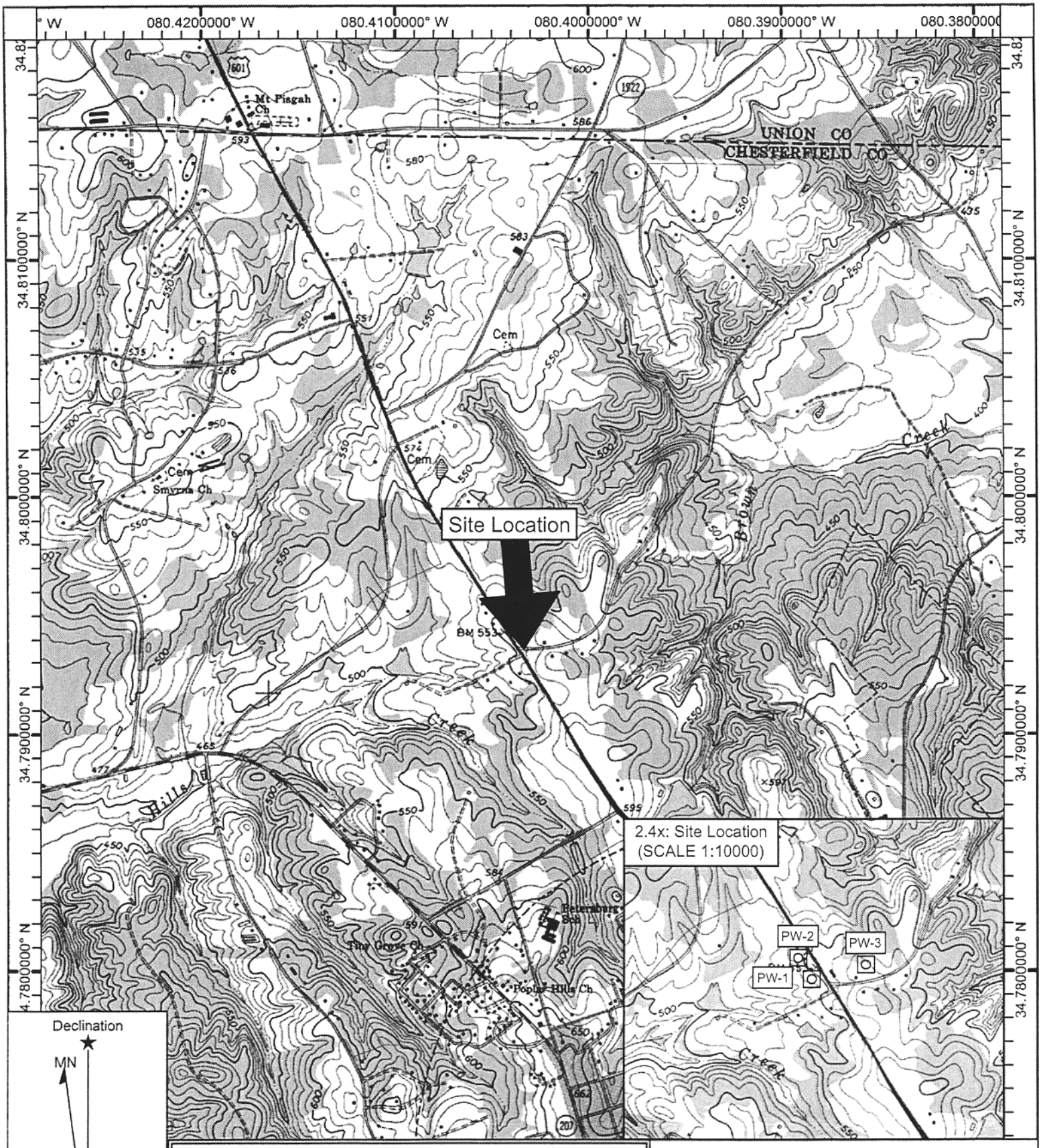


Figure 1
Carolina Country Convenience
1908 Highway 601 North
Pageland, South Carolina
UST Permit # 02261

Name: Topographic Map
Date: 12/09/14
Scale: 1 inch = 2,000 ft.

Map Center Location: 034.7940878° N 080.4035483° W

Generated by ECH at Geological Resources, Inc.

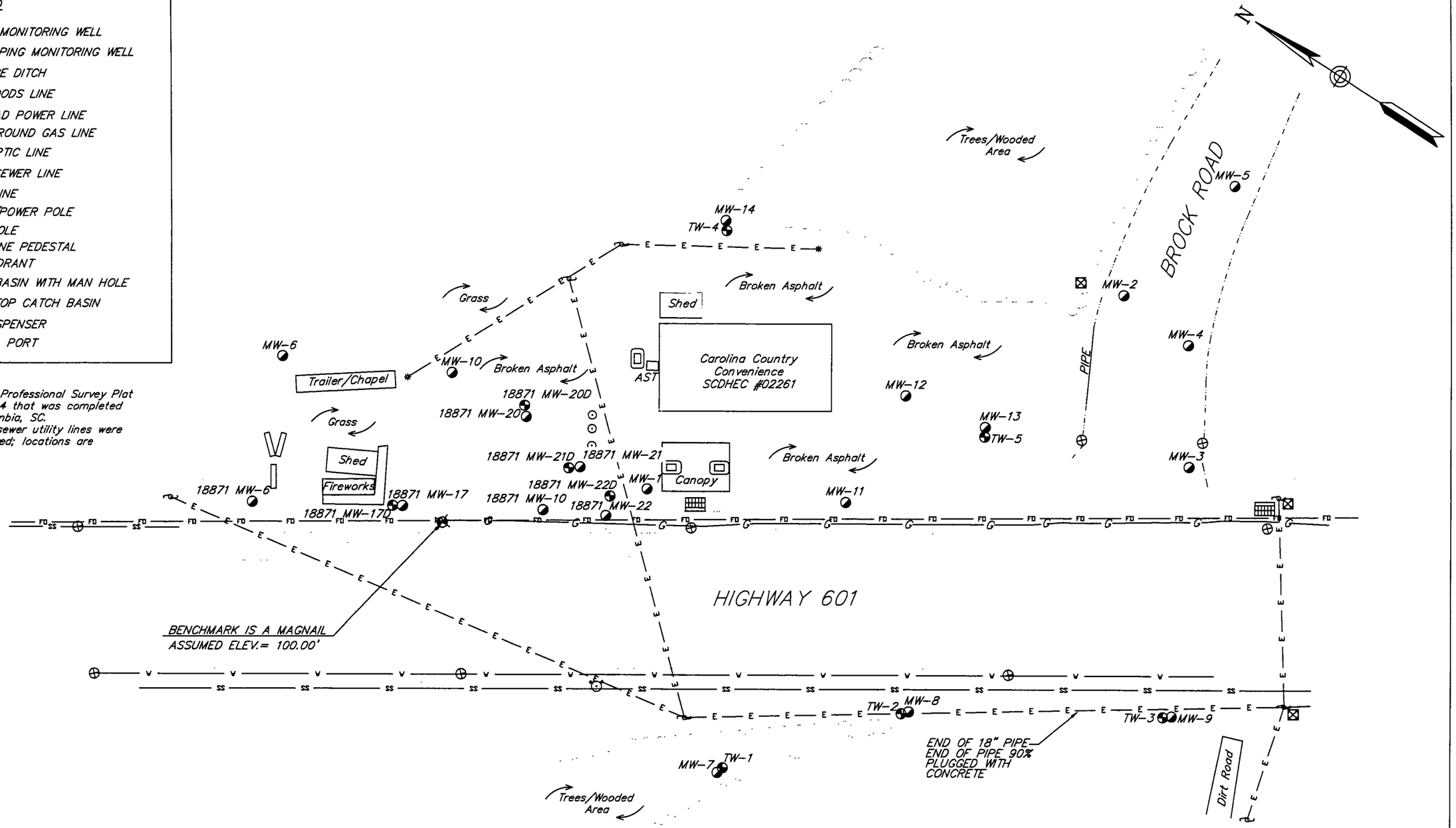
FIGURE 2: SITE VICINITY MAP
CAROLINA COUNTRY CONVENIENCE
1908 HIGHWAY 601 NORTH
PAGELAND, CHESTERFIELD COUNTY
SOUTH CAOLINA
UST PERMIT # 02261

PREPARED BY:
GEOLOGICAL RESOURCES INC.
DECEMBER 12, 2014

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- DRAINAGE DITCH
- TREE/WOODS LINE
- OVERHEAD POWER LINE
- UNDERGROUND GAS LINE
- FIBER OPTIC LINE
- STORM SEWER LINE
- WATER LINE
- UTILITY/POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- CATCH BASIN WITH MAN HOLE
- GRATE TOP CATCH BASIN
- FUEL DISPENSER
- UST FILL PORT

Note:
1. This Map is based on a Professional Survey Plat dated December 17, 2014 that was completed by Jay S. Joshi of Columbia, SC.
2. Fiber optic, water, and sewer utility lines were not professionally surveyed; locations are approximate.



Geological Resources, Inc.

0 25 50 100

(IN FEET)
1 inch = 50 ft

SITE MAP

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — UST Permit # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	3

LEGEND

- SOIL BORING
- FUEL DISPENSER

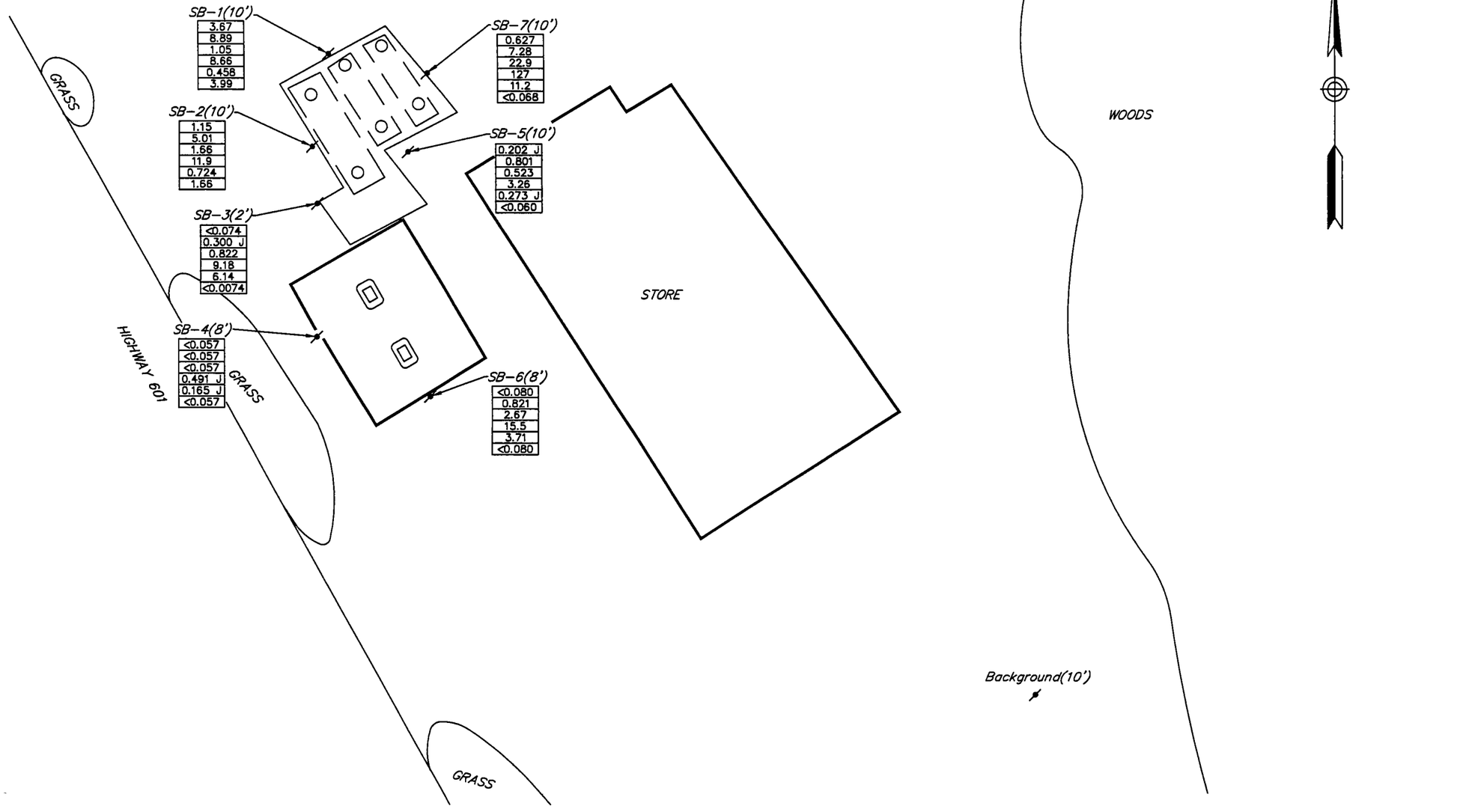
3.67	BENZENE
8.89	TOLUENE
1.05	ETHYLBENZENE
8.66	XYLENES
0.458	NAPHTHALENE
3.99	MTBE

CONCENTRATIONS IN mg/kg

<0.074 LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

"J" ESTIMATED VALUE

Note:
1. This Map is not based on a Professional Survey.
2. Sample "Background(10') was only sampled for TOC.



Geological Resources, Inc.

0 10 20 40

(IN FEET)
1 inch = 20 ft

SOIL QUALITY MAP (05/12/14)

Carolina Country Convenience — 1908 Highway 601 North

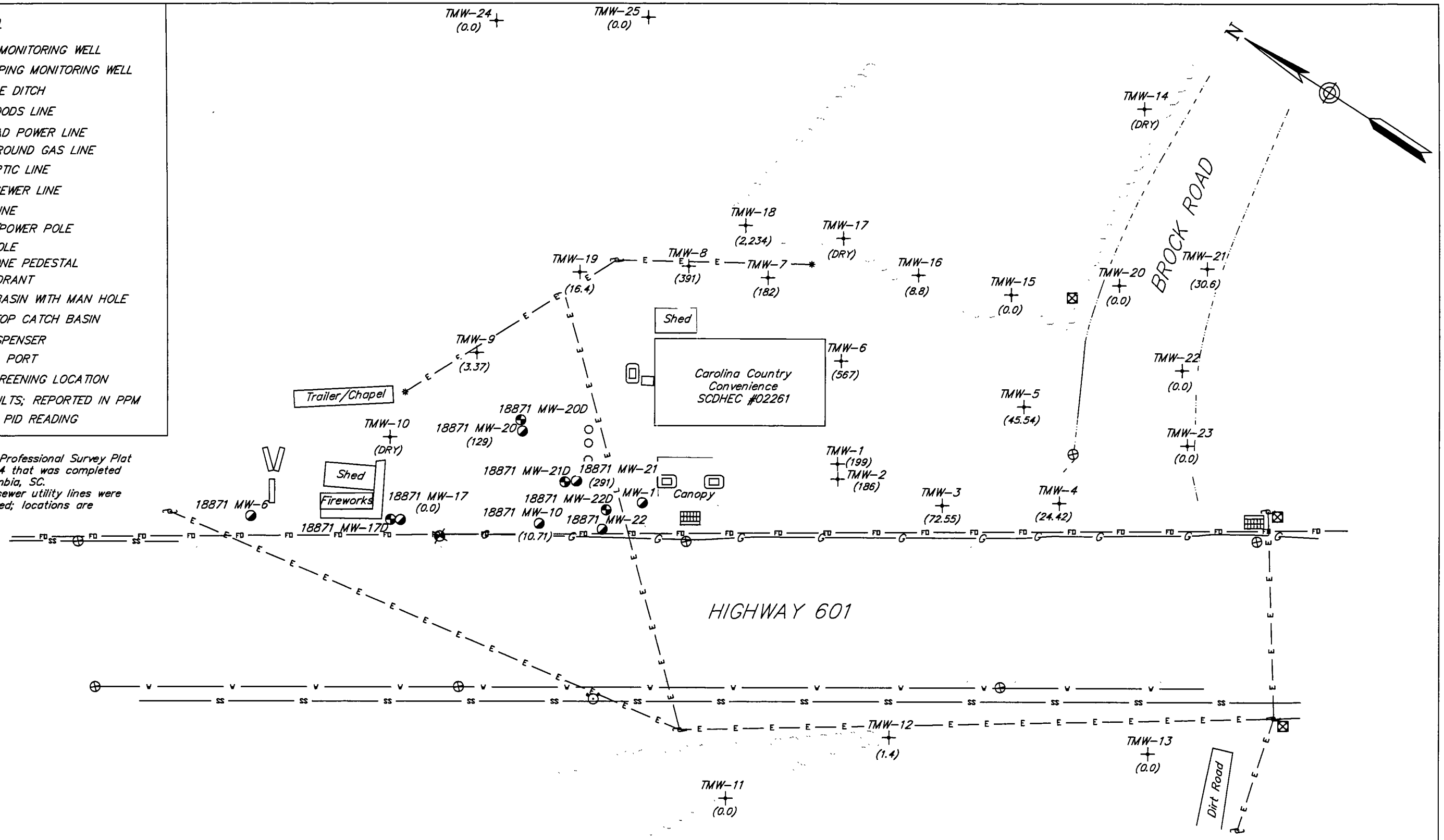
Pageland, Chesterfield County, SC — Incident # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	4

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- DRAINAGE DITCH
- TREE/WOODS LINE
- OVERHEAD POWER LINE
- UNDERGROUND GAS LINE
- FIBER OPTIC LINE
- STORM SEWER LINE
- WATER LINE
- UTILITY/POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- CATCH BASIN WITH MAN HOLE
- GRATE TOP CATCH BASIN
- FUEL DISPENSER
- UST FILL PORT
- FIELD SCREENING LOCATION
- (199) PID RESULTS; REPORTED IN PPM
- (DRY) DRY; NO PID READING

Note:
1. This Map is based on a Professional Survey Plat dated December 17, 2014 that was completed by Jay S. Joshi of Columbia, SC.
2. Fiber optic, water, and sewer utility lines were not professionally surveyed; locations are approximate.



Geological Resources, Inc.

0 25 50 100
(IN FEET)
1 inch = 50 ft

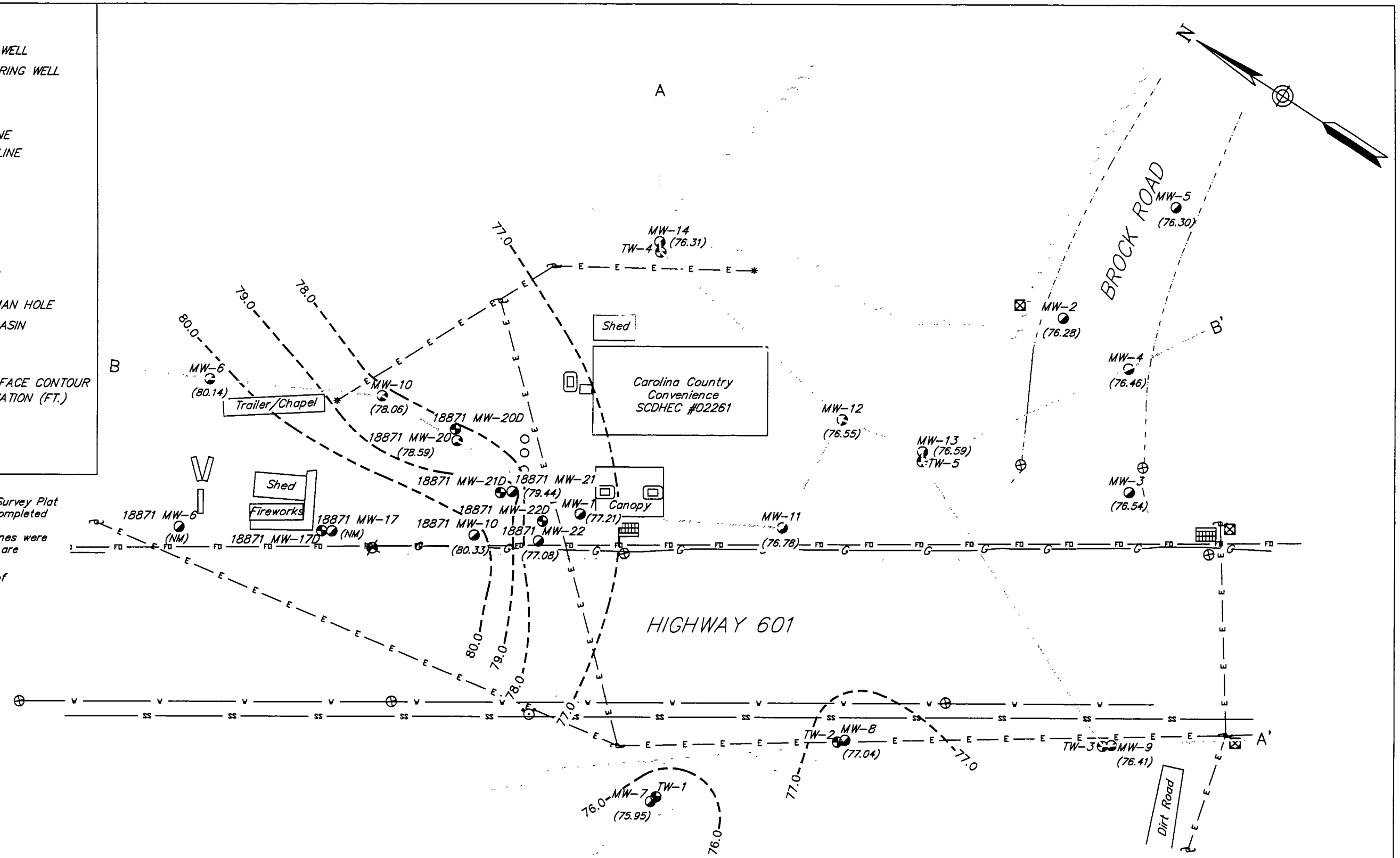
GROUND WATER FIELD SCREENING MAP

Carolina Country Convenience	1908 Highway 601 North
Pageland, Chesterfield County, SC	UST Permit # 02261
Date: 01/23/15	Drawn by: ECH	Figure: 5

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- DRAINAGE DITCH
- TREE/WOODS LINE
- OVERHEAD POWER LINE
- UNDERGROUND GAS LINE
- FIBER OPTIC LINE
- STORM SEWER LINE
- WATER LINE
- UTILITY/POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- CATCH BASIN WITH MAN HOLE
- GRATE TOP CATCH BASIN
- FUEL DISPENSER
- UST FILL PORT
- 77.0 — POTENTIOMETRIC SURFACE CONTOUR
- (77.21) (NM) — GROUND WATER ELEVATION (FT.) NOT MEASURED
- A ····· A' — CROSS SECTION LINE
- B ····· B' — CROSS SECTION LINE

Note:
1. This Map is based on a Professional Survey Plat dated December 17, 2014 that was completed by Jay S. Joshi of Columbia, SC.
2. Fiber optic, water, and sewer utility lines were not professionally surveyed; locations are approximate.
3. Refer to Figures 11 & 12 for details of Cross Section Lines A–A' and B–B', respectively.



Geological Resources, Inc.

0 25 50 100
(IN FEET)
1 inch = 50 ft

POTENTIOMETRIC SURFACE MAP – TYPE III WELLS (11/18/14)

Carolina Country Convenience — 1908 Highway 601 North

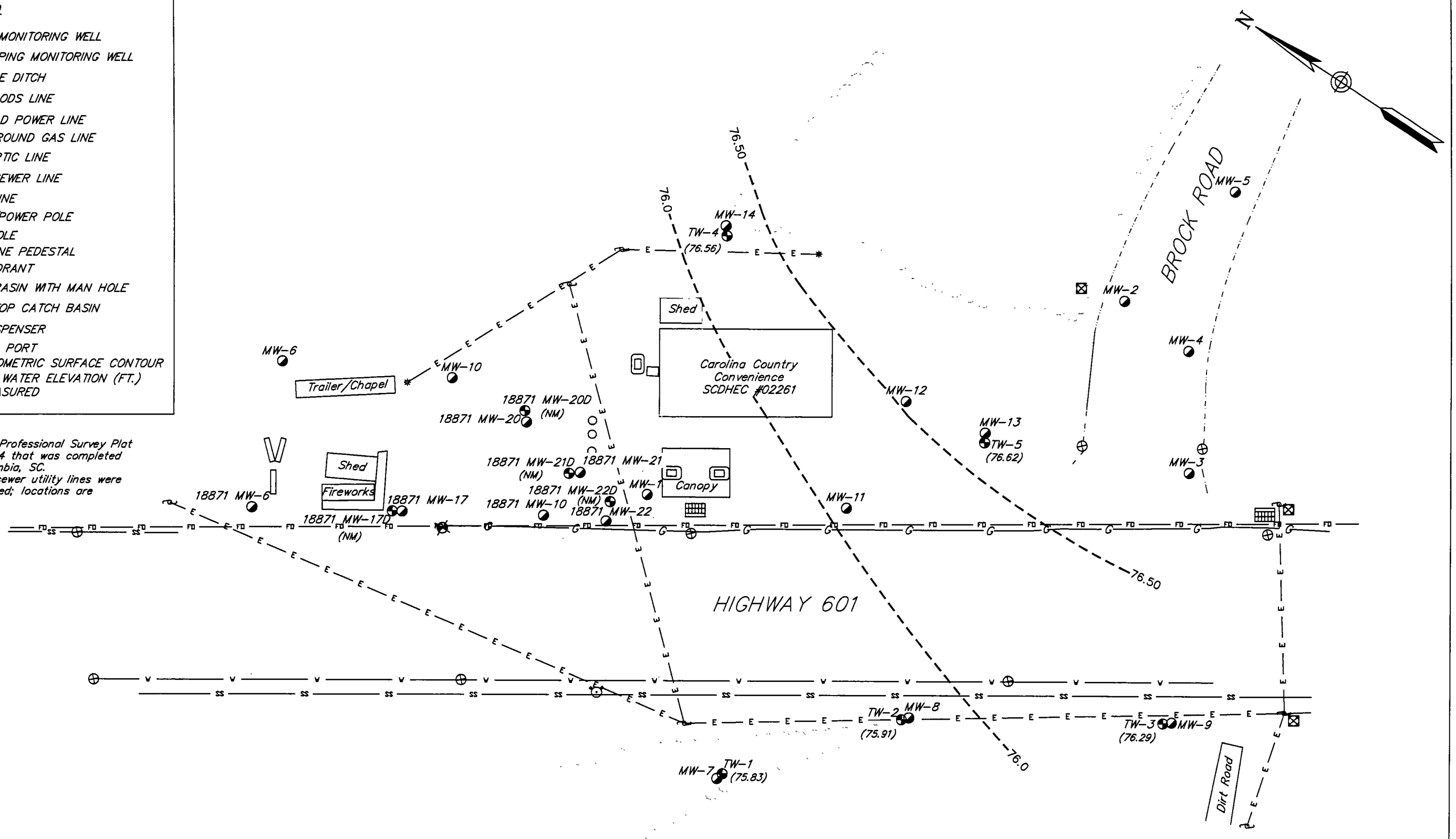
Pageland, Chesterfield County, SC — UST Permit # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	6

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- DRAINAGE DITCH
- TREE/WOODS LINE
- OVERHEAD POWER LINE
- UNDERGROUND GAS LINE
- FIBER OPTIC LINE
- STORM SEWER LINE
- WATER LINE
- UTILITY/POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- CATCH BASIN WITH MAN HOLE
- GRATE TOP CATCH BASIN
- FUEL DISPENSER
- UST FILL PORT
- 76.0 — POTENTIOMETRIC SURFACE CONTOUR
- (75.83) — GROUND WATER ELEVATION (FT.)
- (NM) — NOT MEASURED

Note:
1. This Map is based on a Professional Survey Plat dated December 17, 2014 that was completed by Jay S. Joshi of Columbia, SC.
2. Fiber optic, water, and sewer utility lines were not professionally surveyed; locations are approximate.



Geological Resources, Inc.

0 25 50 100
(IN FEET)
1 inch = 50 ft

POTENTIOMETRIC SURFACE MAP – TELESCOPING WELLS (11/18/14)

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — UST Permit # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	7

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- DRAINAGE DITCH
- TREE/WOODS LINE
- OVERHEAD POWER LINE
- UNDERGROUND GAS LINE
- FIBER OPTIC LINE
- STORM SEWER LINE
- WATER LINE
- UTILITY/POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- CATCH BASIN WITH MAN HOLE
- GRATE TOP CATCH BASIN
- FUEL DISPENSER
- UST FILL PORT

23,400	BENZENE
10,200	TOLUENE
1,780	ETHYLBENZENE
9,590	XYLENES
2,900	MTBE
520 J	NAPHTHALENE
934	1,2-DCA
123	EDB
6.5	LEAD

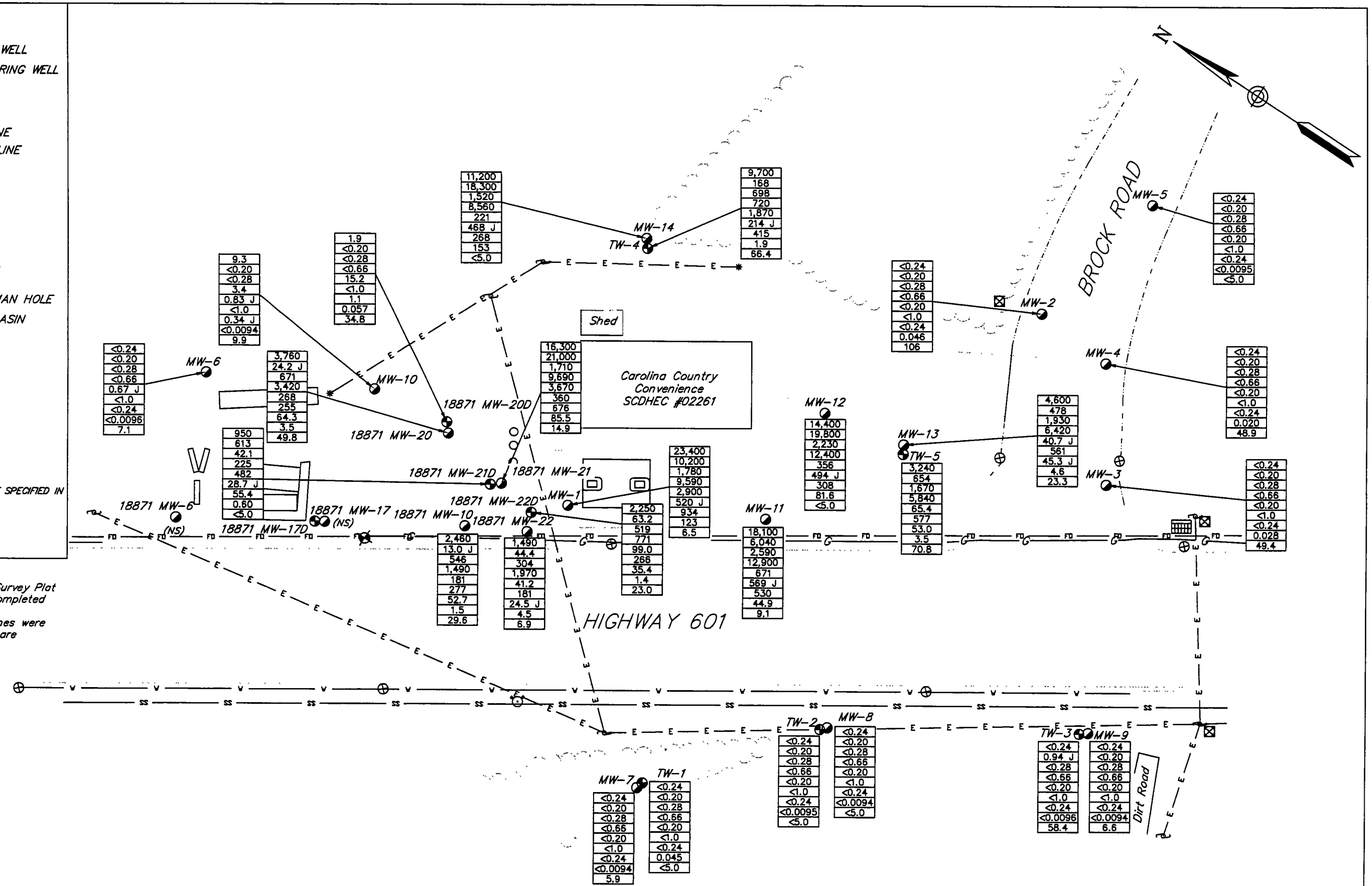
CONCENTRATIONS IN µg/L

<0.24 LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

"J" ESTIMATED VALUE

(NS) NOT SAMPLED

Note:
1. This Map is based on a Professional Survey Plat dated December 17, 2014 that was completed by Jay S. Joshi of Columbia, SC.
2. Fiber optic, water, and sewer utility lines were not professionally surveyed; locations are approximate.



Geological Resources, Inc.

0 25 50 100

(IN FEET)
1 inch = 50 ft

GROUND WATER QUALITY MAP (11/18 – 11/20/14)

Carolina Country Convenience — 1908 Highway 601 North

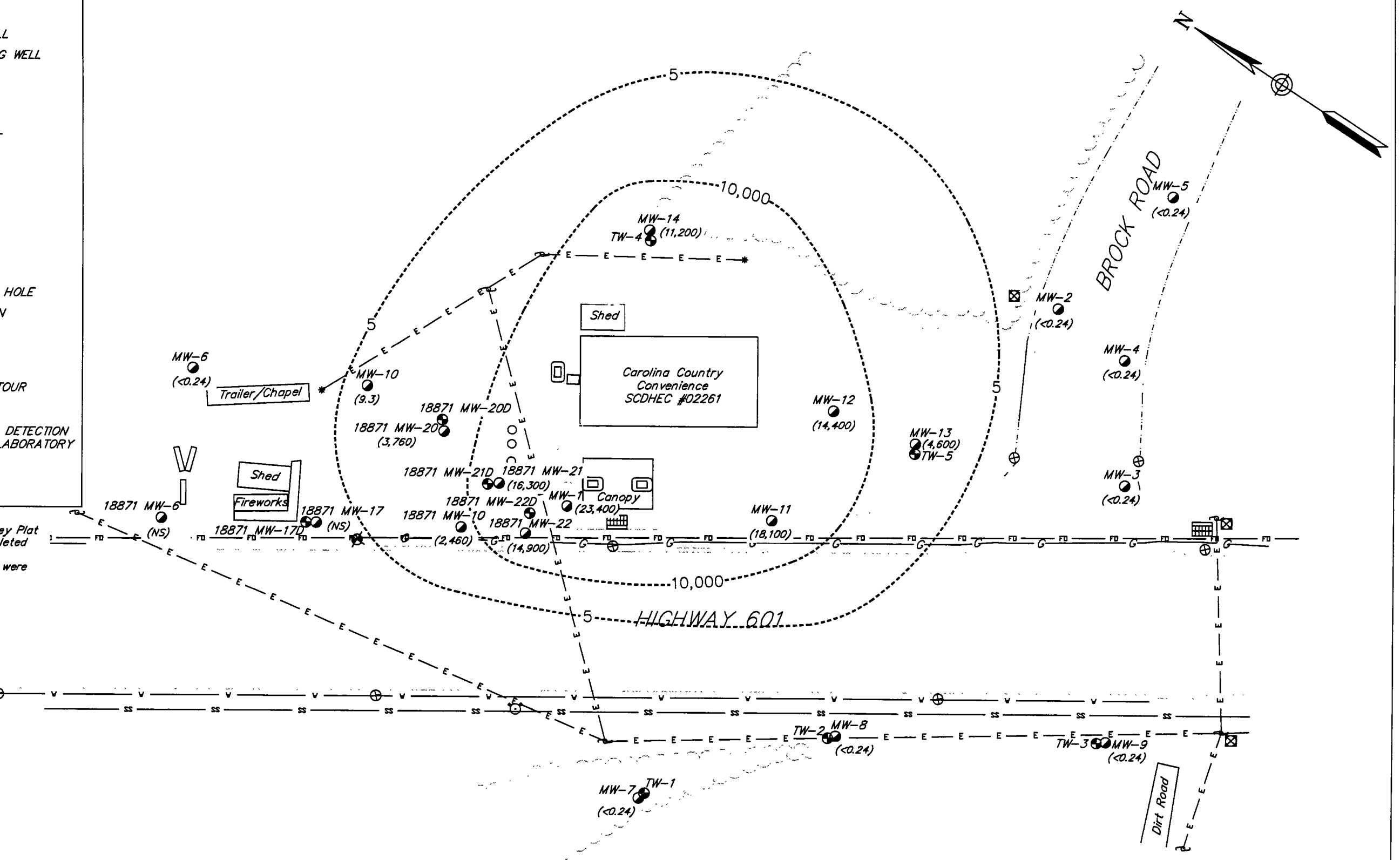
Pageland, Chesterfield County, SC — UST Permit # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	8

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- DRAINAGE DITCH
- TREE/WOODS LINE
- OVERHEAD POWER LINE
- UNDERGROUND GAS LINE
- FIBER OPTIC LINE
- STORM SEWER LINE
- WATER LINE
- UTILITY/POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- CATCH BASIN WITH MAN HOLE
- GRATE TOP CATCH BASIN
- FUEL DISPENSER
- UST FILL PORT
- 5 — INFERRED BENZENE ISOCONCENTRATION CONTOUR
- (23,400) — CONCENTRATION (µg/L)
- (<0.24) — LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT
- "J" — ESTIMATED VALUE
- (NS) — NOT SAMPLED

Note:
1. This Map is based on a Professional Survey Plat dated December 17, 2014 that was completed by Jay S. Joshi of Columbia, SC.
2. Fiber optic, water, and sewer utility lines were not professionally surveyed; locations are approximate.



Geological Resources, Inc.

0 25 50 100
(IN FEET)
1 inch = 50 ft

BENZENE ISOCONCENTRATION MAP (11/18 – 11/20/14)

Carolina Country Convenience — 1908 Highway 601 North

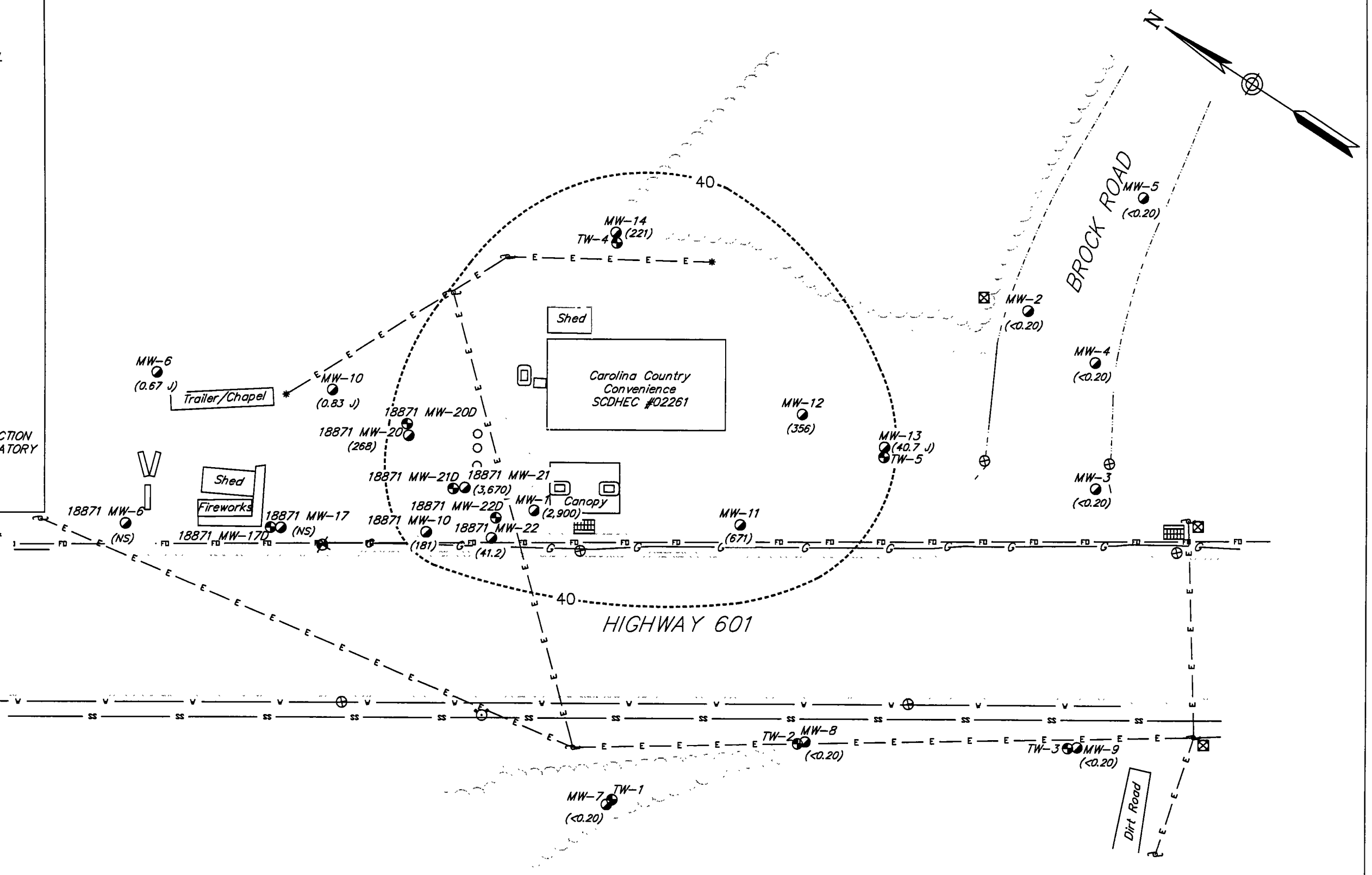
Pageland, Chesterfield County, SC — UST Permit # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	9

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- DRAINAGE DITCH
- TREE/WOODS LINE
- E — E — OVERHEAD POWER LINE
- G — UNDERGROUND GAS LINE
- FO — FIBER OPTIC LINE
- SS — STORM SEWER LINE
- W — WATER LINE
- UTILITY/POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- CATCH BASIN WITH MAN HOLE
- GRATE TOP CATCH BASIN
- FUEL DISPENSER
- UST FILL PORT
- 40 — INFERRED MTBE ISOCONCENTRATION CONTOUR
- (2,900) — CONCENTRATION (µg/L)
- (<0.20) — LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT
- "J" — ESTIMATED VALUE
- (NS) — NOT SAMPLED

Note:
1. This Map is based on a Professional Survey Plat dated December 17, 2014 that was completed by Jay S. Joshi of Columbia, SC.
2. Fiber optic, water, and sewer utility lines were not professionally surveyed; locations are approximate.



Geological Resources, Inc.

0 25 50 100
(IN FEET)
1 inch = 50 ft

MTBE ISOCONCENTRATION MAP (11/18 – 11/20/14)

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — UST Permit # 02261

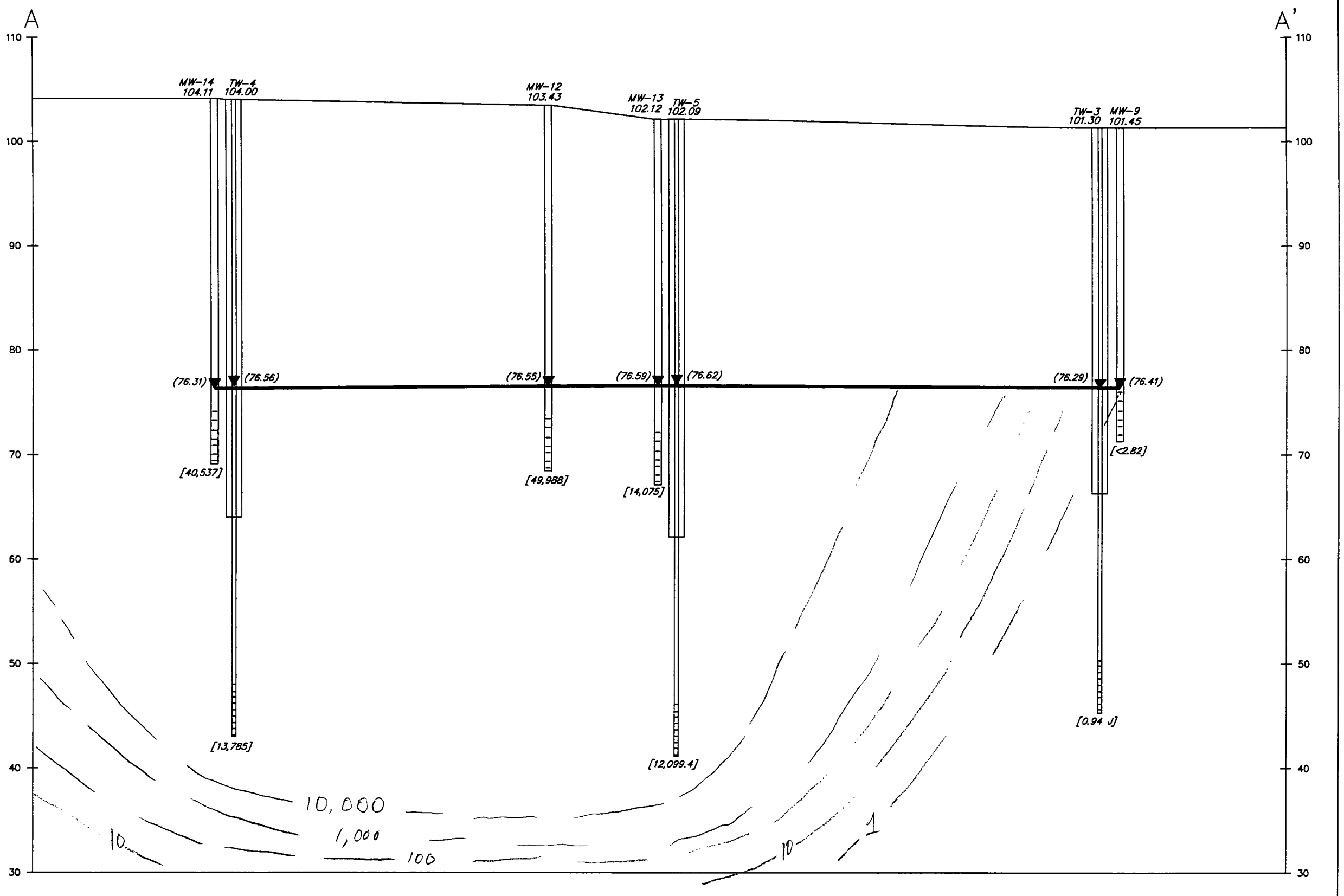
Date:	01/23/15	Drawn by:	ECH	Figure:	10

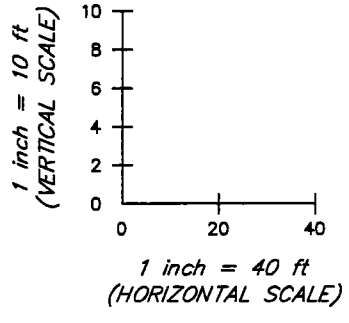
LEGEND

MW-14 104.11	WELL DESIGNATION TOP OF CASING ELEVATION (FT.)
	SCREENED INTERVAL
(76.31) ▼	WATER TABLE SURFACE CONTOUR WITH ELEVATION (FT.)
·····100·····	TOTAL VOC ISOCONCENTRATION CONTOUR
[14,998]	TOTAL VOC CONCENTRATION
[<2.82]	LESS THAN THE SUM OF THE REPORTING LIMITS SPECIFIED IN THE LABORATORY REPORT
"J"	ESTIMATED VALUE

Note:

1. See Figure 6: "Potentiometric Surface Map – Type III Wells" for labeled cross sections in reference to this drawing.
2. All measurements on this drawing are in feet.
3. Diameter of wells are enlarged on this drawing and not to scale.
4. Lithology: The site is underlain by silts and clays to an average depth of 5–10 feet, then partially weathered rock/meta mudstone (argillite) to at least 60 feet.
5. Total VOC concentrations include BTEX, MTBE, Napthalene, and 1,2-DCA.





Geological Resources, Inc.

CROSS SECTION A–A'

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — UST Permit # 02261

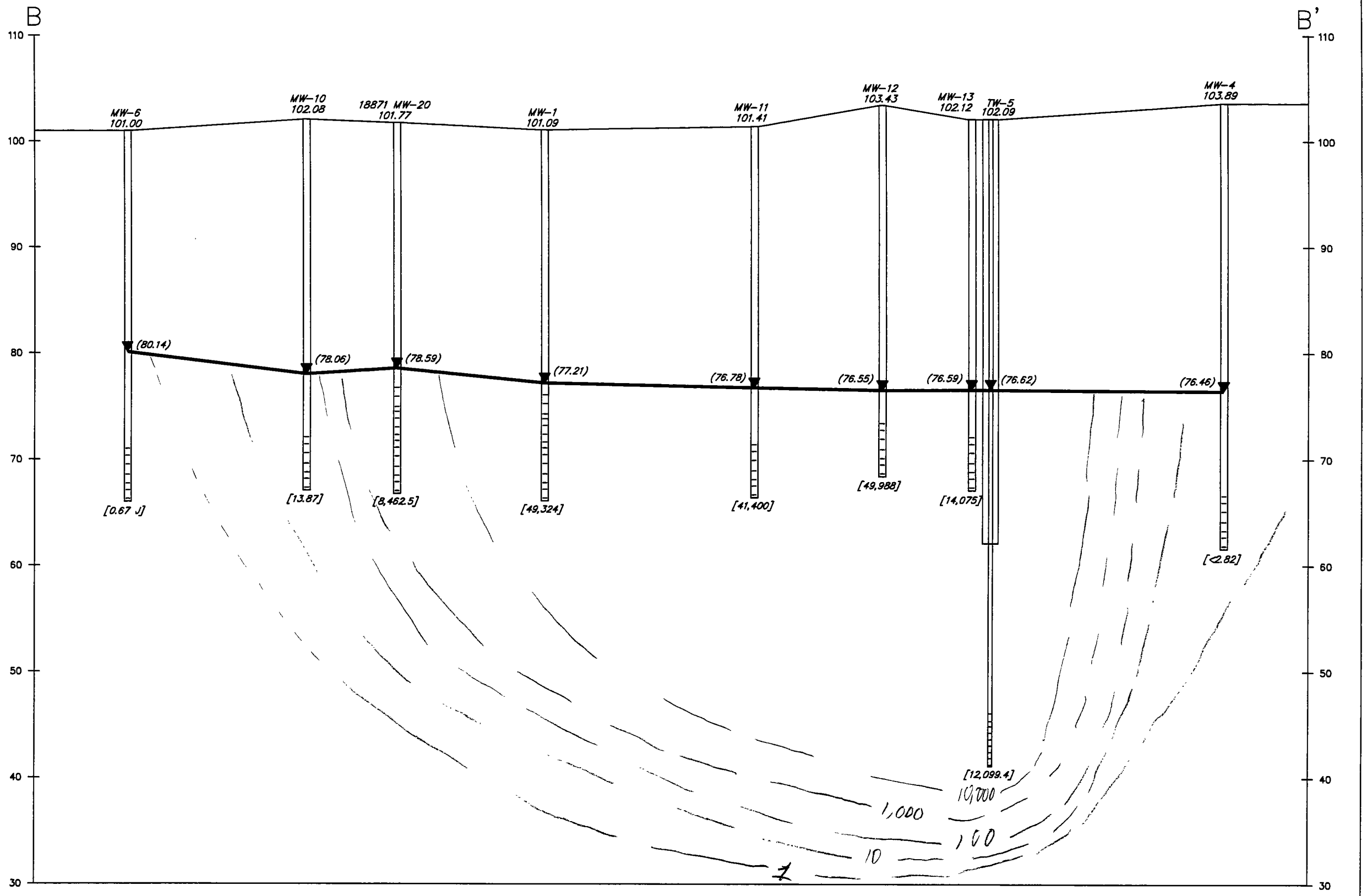
Date:	01/23/15	Drawn by:	ECH	Figure:	11

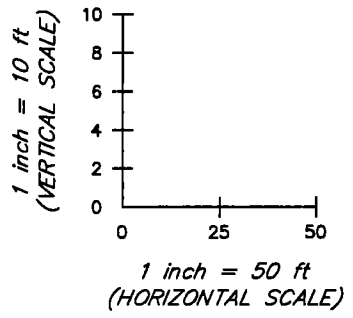
LEGEND

MW-6 101.00	WELL DESIGNATION TOP OF CASING ELEVATION (FT.)
	SCREENED INTERVAL
(80.14)	WATER TABLE SURFACE CONTOUR WITH ELEVATION (FT.)
100	TOTAL VOC ISOCONCENTRATION CONTOUR
[49,988]	TOTAL VOC CONCENTRATION
[<2.82]	LESS THAN THE SUM OF THE REPORTING LIMITS SPECIFIED IN THE LABORATORY REPORT
"J"	ESTIMATED VALUE

Note:

1. See Figure 6: "Potentiometric Surface Map – Type III Wells" for labeled cross sections in reference to this drawing.
2. All measurements on this drawing are in feet.
3. Diameter of wells are enlarged on this drawing and not to scale.
4. Lithology: The site is underlain by silts and clays to an average depth of 5–10 feet, then partially weathered rock/meta mudstone (argillite) to at least 60 feet).
5. Total VOC concentrations include BTEX, MTBE, Napthalene, and 1,2–DCA.





Geological Resources, Inc.

CROSS SECTION B–B'

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — UST Permit # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	12

TABLE 1
SUMMARY OF ADJACENT PROPERTY OWNER INFORMATION
CAROLINA COUNTRY CONVENIENCE
UST PERMIT NUMBER 02261

Tax Map No.	Owner/ Occupant Name	Address
030-000-000-006 (Site)	Wilson's Incorporated	PO Box 1839 Lancaster, South Carolina 29720
030-000-000-005	Circle S. Ranch	1604 Circle S Ranch Road Monroe, North Carolina 28112
030-000-000-007	Alvin E. & Kenneth E. Moree	401 Horace Price Road Pageland, South Carolina 29278
030-000-000-008	Philip R. & Judy Kaye Bundrick	PO Box 58 Pageland, South Carolina 29728
019-000-000-038	Hundred Oaks Partners LLC c/o James B. Belk	111Virginia Street, Suite 401 Richmond Virginia, 32319
030-000-000-004	Eddie M. Johnson	680 Piney Neck Road Vanceboro, North Carolina 28586

- Property owner information current as of May 2014. Information obtained via Chesterfield County, SC online Tax Assessor Office: http://chesterfieldcountysc.com/assessor.aspx.

TABLE 2
SUMMARY OF WATER SUPPLY WELL OWNER INFORMATION[1]
CARONINA COUNTRY CONVENIENCE
UST PERMIT NUMBER 02261

Well ID	Active/Inactive	Municipal Water Available	Tax Map No./Parcel No.	Owner Name	Address
WSW-1	In-Active (fenced and unaccessible)	Yes	030-000-000-004	Eddie M. Johnson	680 Piney Neck Road Vanceboro, North Carolina 28586
WSW-2	In-Active	Yes	030-000-000-003	Cathy T. Casper c/o Mrs. Threatt	2003 Highway 601 North Pageland, South Carolina 29278
WSW-3	Active	Yes	030-000-000-007	Alvin E. & Kenneth E. Moree	401 Horace Price Road Pageland, South Carolina 29278

Note:
Water supply well owner information is current as of November 20, 2014.

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
SOIL SAMPLES
CAROLINA COUNTRY CONVENIENCE (UST PERMIT # 02261)

Sample No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	Lead	TPH-DRO	TOC
RBSLs		**0.008**	**1.167**	**6.2**	**22.495**	**0.069**	**NE**	**NE**	**NE**	**NE**
SB-1 (10')	05/12/14	**3.67**	**8.89**	1.05	**8.66**	**0.458**	3.99	2.1	NR	NR
SB-2 (10')	05/12/14	**1.15**	**5.01**	1.66	11.9	**0.724**	1.66	9.0	38.9	NR
SB-3 (2')	05/12/14	<0.074	0.300 J	0.822	9.18	**6.14**	<0.0074	8.8	NR	NR
SB-4 (8')	05/12/14	<0.057	<0.057	<0.057	0.491 J	0.165 J	<0.057	17.5	NR	NR
SB-5 (10')	05/12/14	0.202 J	0.801	0.523	3.26	0.273 J	<0.060	12.8	NR	NR
SB-6 (8')	05/12/14	<0.080	0.821	2.67	15.5	**3.71**	<0.080	15.7	NR	NR
SB-7 (10')	05/12/14	**0.627**	**7.28**	**22.9**	**127**	**11.2**	<0.068	15.0	NR	NR
Background (10')	05/12/14	NR	NR	NR	NR	NR	NR	NR	NR	<1,300
DUP A	05/12/14	<0.054	0.937	1.45	8.24	**1.18**	<0.054	NR	11.1	NR
Field Blank	05/12/14	<0.0013	<0.0013	<0.0013	0.0050 J	<0.0026	<0.0013	NR	NR	NR
Trip Blank	05/12/14	<0.0010	<0.0010	<0.0010	<0.0027	<0.0020	<0.0010	NR	NR	NR

Notes:

- Analyses for BTEX constituents, MTBE and naphthalene by EPA Method 8260B, PAHS using Method 8270, lead using Method 6010 and TPH using Method 5; results rep reported in mg/kg.
- DUP A: Duplicate of Soil Sample SB-2 (10').
- RBSL: May 2001 Risk-Based Screening Levels for Clay-Rich Soils with a Separation Distance of 10-15 Feet.
- Concentrations in bold face type exceeded the RBSLs.
- <: Less than the report limit specified in the laboratory report.
- J: estimated value.
- NE: Not established.
- NR: Not requested.

TABLE 4
SUMMARY OF FIELD SCREENING RESULTS
CAROLINA COUNTRY CONVENIENCE (UST PERMIT # 02261)

Sample ID	Date	Depth (feet)	PID (ppm)
TMW-1	05/12/14	30	199
TMW-2	05/12/14	50	186
TMW-3	05/13/14	30	72.55
TMW-4	05/13/14	32	24.42
TMW-5	05/13/14	29	42.54
TMW-6	05/13/14	22	567
TMW-7	05/13/14	30	182
TMW-8	05/13/14	30	391
TMW-9	05/13/14	30	3.37
TMW-10	05/13/14	30	Dry
18871 MW-10	05/13/14	35	10.71
18871 MW-17	05/13/14	35	0.0
18871 MW-20	05/13/14	35	129
18871 MW-21	05/13/14	35	291
TMW-11	10/27/14	30	0.0
TMW-12	10/27/14	30	1.4
TMW-13	10/27/14	30	0.0
TMW-14	10/27/14	42	Dry
TMW-15	10/27/14	47	0.0
TMW-16	10/27/14	47	8.8
TMW-17	10/28/14	40	Dry
TMW-18	10/28/14	60	2,234
TMW-19	10/28/14	37	16.4
TMW-20	10/28/14	42	0.0
TMW-21	10/28/14	42	30.6
TMW-22	10/29/14	42	0.0
TMW-23	10/29/14	42	0.0
TMW-24	10/29/14	60	0.0
TMW-25	10/29/14	60	0.0

TABLE 5
SUMMARY OF GROUND WATER ELEVATION DATA
CAROLINA COUNTRY CONVENIENCE (UST PERMIT # 02261)

Well No.	Date	Top of Casing Elevation	Depth to Product	Depth to Ground Water	Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval	Comments
02261 MW-1	08/09/13	NM	---	12.39	---	---	35	25-35	
	11/18/14	101.09	---	23.88	---	77.21			
02261 MW-2	11/18/14	105.45	---	29.17	---	76.28	42	37-42	
02261 MW-3	11/18/14	102.34	---	25.80	---	76.54	42	37-42	
02261 MW-4	11/18/14	103.89	---	27.43	---	76.46	42	37-42	
02261 MW-5	11/18/14	109.60	---	33.30	---	76.30	42	37-42	
02261 MW-6	11/18/14	101.00	---	20.86	---	80.14	35	30-35	
02261 MW-7	11/18/14	96.55	---	20.60	---	75.95	30	25-30	
02261 MW-8	11/18/14	97.79	---	20.75	---	77.04	30	25-30	
02261 MW-9	11/18/14	101.45	---	25.04	---	76.41	30	25-30	
02261 MW-10	11/18/14	102.08	---	24.02	---	78.06	35	30-35	
02261 MW-11	11/18/14	101.41	---	24.63	---	76.78	35	30-35	
02261 MW-12	11/18/14	103.43	---	26.88	---	76.55	35	30-35	
02261 MW-13	11/18/14	102.12	---	25.53	---	76.59	35	30-35	
02261 MW-14	11/18/14	104.11	---	27.80	---	76.31	35	30-35	
02261 TW-1	11/18/14	96.74	---	20.91	---	75.83	56	51-56	
02261 TW-2	11/18/14	97.63	---	21.72	---	75.91	56	51-56	
02261 TW-3	11/18/14	101.30	---	25.01	---	76.29	56	51-56	
02261 TW-4	11/18/14	104.00	---	27.44	---	76.56	61	56-61	
02261 TW-5	11/18/14	102.09	---	25.47	---	76.62	61	56-61	
18871 MW-10	11/18/14	100.03	---	19.70	---	80.33	35	25-35	
18871 MW-20	11/18/14	101.77	---	23.18	---	78.59	35	25-35	
18871 MW-20D	11/18/14	101.93	---	27.53	---	74.40	60	55-60	
18871 MW-21	11/18/14	101.00	---	21.56	---	79.44	35	25-35	
18871 MW-21D	11/18/14	101.04	---	18.68	---	82.36	60	55-60	
18871 MW-22	11/18/14	100.24	---	23.16	---	77.08	35	25-35	
18871 MW-22D	11/18/14	100.55	---	23.81	---	76.74	60	55-60	

Notes:
- Elevations relative to temporary benchmark set at 100.00 ft ; data reported in feet.
- NM: Not measured.

TABLE 6
SUMMARY OF RESULTS
SLUG TEST ANALYSIS
CAROLINA COUNTRY CONVENIENCE
UST PERMIT NUMBER 02261

Well No.	Hydraulic Conductivity		Seepage Velocity	
	ft/min	ft/day	ft/day	ft/year
MW-11	7.78×10^{-6}	1.12×10^{-2}	2.24×10^{-3}	0.82
MW-14	1.266×10^{-5}	1.82×10^{-2}	3.64×10^{-3}	1.33
TW-4	2.12×10^{-3}	3.05	0.61	222.65

Notes:
- Slug tests conducted on November 20, 2014.
- Seepage velocities calculated using the equation $V = K(dh/dl)/n_e$, where:
  K = hydraulic conductivity
  dh/dl = hydraulic gradient = 0.06
  n_e = effective porosity = 0.3

TABLE 7
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
CAROLINA COUNTRY CONVENIENCE (UST PERMIT # 02261)

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**	**15**
02261 MW-1	08/09/13	**19,000**	**7,150**	**1,700**	8,910	**2,360**	**469 J**	**794**	**104**	7.9
	11/19/14	**23,400**	**10,200**	**1,780**	9,590	**2,900**	**520 J**	**934**	**123**	6.5
02261 MW-1 DUP A	08/09/13	**19,700**	**7,910**	**1,710**	9,110	**2,440**	**494 J**	**820**	**107**	12.2
	11/19/14	**22,100**	**10,400**	**1,640**	9,020	**2,640**	**665 J**	**873**	**138**	**56.3**
02261 MW-2	11/18/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	0.046	**106**
02261 MW-3	11/18/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	0.028	**49.4**
02261 MW-4	11/18/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	0.020	**48.9**
02261 MW-5	11/18/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095	<5.0
02261 MW-6	11/18/14	<0.24	<0.20	<0.28	<0.66	0.67 J	<1.0	<0.24	<0.0096	7.1
02261 MW-7	11/20/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094	5.9
02261 MW-8	11/20/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094	<5.0
02261 MW-9	11/20/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094	6.6
02261 MW-10	11/18/14	**9.3**	<0.20	<0.28	3.4	0.83 J	<1.0	0.34 J	<0.0094	9.9
02261 MW-11	11/19/14	**18,100**	**6,040**	**2,590**	**12,900**	**671**	**569 J**	**530**	**44.9**	9.1
02261 MW-12	11/19/14	**14,400**	**19,800**	**2,230**	**12,400**	**356**	**494 J**	**308**	**81.6**	<5.0
02261 MW-13	11/19/14	**4,600**	478	**1,930**	6,420	**40.7 J**	**561**	**45.3 J**	**4.6**	**23.3**
02261 MW-14	11/19/14	**11,200**	**18,300**	**1,520**	8,560	**221**	**468 J**	**268**	**153**	<5.0
02261 MW-14 DUP B	11/19/14	**11,500**	**19,300**	**1,710**	9,230	**213**	**461 J**	**261**	**121**	7.5
02261 TW-1	11/20/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	0.045	<5.0
02261 TW-2	11/20/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095	<5.0
02261 TW-3	11/20/14	<0.24	0.94 J	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096	**58.4**
02261 TW-4	11/19/14	**9,700**	168	698	720	**1,870**	**214 J**	**415**	**1.9**	**66.4**
02261 TW-5	11/19/14	**3,240**	654	**1,670**	5,840	**65.4**	**577**	**53.0**	**3.5**	**70.8**
18871 MW-10	11/19/14	**2,460**	13.0 J	546	1,490	**181**	**277**	**52.7**	**1.5**	**29.6**
18871 MW-20	11/18/14	**3,760**	24.2 J	**671**	3,420	**268**	**255**	**64.3**	**3.5**	**49.8**
18871 MW-20D	11/19/14	1.9	<0.20	<0.28	<0.66	15.2	<1.0	1.1	**0.057**	**34.8**
18871 MW-21	11/19/14	**16,300**	**21,000**	**1,710**	9,690	**3,670**	**360**	**676**	**85.5**	14.9
18871 MW-21D	11/19/14	**950**	613	42.1	225	**482**	**28.7 J**	**55.4**	**0.60**	<5.0
18871 MW-22	11/19/14	**1,490**	44.4	304	1,970	**41.2**	**181**	**24.5 J**	**4.5**	6.9
18871 MW-22D	11/19/14	**2,250**	63.2	519	771	**99.0**	**266**	**35.4**	**1.4**	**23.0**
PW-2	08/09/13	1.0	0.28 J	<0.29	<0.50	<0.21	<1.0	<0.22	<0.0093	NR
	11/19/14	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 7
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
CAROLINA COUNTRY CONVENIENCE (UST PERMIT # 02261)

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**	**15**
PW-3	11/20/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095	NR
TRIP BLK	08/09/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR	NR
	11/19/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	NR	NR
FIELD BLK	08/09/13	<0.21	0.26 J	<0.29	<0.50	<0.21	<1.0	<0.22	<0.0094	<5.0
	11/19/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096	<5.0

Notes:
- Analyses for BTEX, MTBE, naphthalene and 1, 2-DCA by EPA Method 8260B, EDB by Method 8011 and lead by EPA Method 3010/6010; results reported in µg/l.
- RBSL: May 2001 Risk Based Screening Level.
- Concentrations in bold face type exceeded the RBSL.
- <: Less than the report limit specified in the laboratory report.
- NS: Not sampled.
- NR: Analysis not requested.

TABLE 8
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
CAROLINA COUNTRY CONVENIENCE (UST PERMIT # 02261)

Well No.	Date	TAA	TAME	TBA	TBF	Ethanol	ETBA	ETBE	IPE
02261 MW-1	11/19/14	**45,200**	<55	**28,500**	<1000	<5800	<950	<50	<57
02261 MW-1 DUP A	11/19/14	**41,000**	<55	**26,000**	<1000	<5800	<950	<50	<57
02261 MW-2	11/18/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-3	11/18/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-4	11/18/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-5	11/18/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-6	11/18/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-7	11/20/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-8	11/20/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-9	11/20/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-10	11/18/14	**54.5**	<0.22	**12.3 J**	<4.0	<23	<3.8	<0.20	<0.23
02261 MW-11	11/19/14	**88,000**	**106 J**	**6,100**	<810	<4600	<760	<40	<45
02261 MW-12	11/19/14	**34,100**	<44	**3,420 J**	<810	<4600	<760	<40	<45
02261 MW-13	11/19/14	**9,820**	<22	<880	<400	<2300	<380	<20	<23
02261 MW-14	11/19/14	**23,600**	<44	**2,040 J**	<810	<4600	<760	<40	<45
02261 MW-14 DUP B	11/19/14	**21,900**	<44	**2,220 J**	<810	<4600	<760	<40	<45
02261 TW-1	11/20/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 TW-2	11/20/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 TW-3	11/20/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
02261 TW-4	11/19/14	**12,400**	**65.1 J**	**2,580**	<400	<2300	<380	<20	<23
02261 TW-5	11/19/14	**9,690**	<11	**892 J**	<200	<1200	<190	<10	<11
18871 MW-10	11/19/14	**2,200**	<11	**1,560**	<200	<1200	<190	<10	<11
18871 MW-20	11/18/14	**3,480**	<11	**753 J**	<200	<1200	<190	<10	<11
18871 MW-20D	11/19/14	**7.7 J**	**0.56 J**	**20.1**	<4.0	<23	<3.8	<0.20	<0.23

TABLE 7
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
CAROLINA COUNTRY CONVENIENCE (UST PERMIT # 02261)

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB	Lead
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**	**15**
PW-3	11/20/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095	NR
TRIP BLK	08/09/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR	NR
	11/19/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	NR	NR
FIELD BLK	08/09/13	<0.21	0.26 J	<0.29	<0.50	<0.21	<1.0	<0.22	<0.0094	<5.0
	11/19/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096	<5.0

Notes:

- Analyses for BTEX, MTBE, naphthalene and 1, 2-DCA by EPA Method 8260B, EDB by Method 8011 and lead by EPA Method 3010/6010; results reported in µg/l.
- RBSL: May 2001 Risk Based Screening Level.
- Concentrations in bold face type exceeded the RBSL.
- <: Less than the report limit specified in the laboratory report.
- NS: Not sampled.
- NR: Analysis not requested.

TABLE 8
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
CAROLINA COUNTRY CONVENIENCE (UST PERMIT # 02261)

Well No.	Date	TAA	TAME	TBA	TBF	Ethanol	ETBA	ETBE	IPE
18871 MW-21	11/19/14	**32,800**	<0.22	**34,500**	<4.0	<23	<3.8	<0.20	14.5
18871 MW-21D	11/19/14	**6,020**	**6.2 J**	**3,470**	<81	<460	<76	<4.0	<4.5
18871 MW-22	11/19/14	**2,140**	<5.5	**473 J**	<100	<580	<95	<5.0	<5.7
18871 MW-22D	11/19/14	**4,200**	<0.44	**1,440**	<8.1	<46	<7.6	<0.40	<0.45
PW-3	11/20/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
TRIP BLK	11/19/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23
FIELD BLK	11/19/14	<7.4	<0.22	<8.8	<4.0	<23	<3.8	<0.20	<0.23

Notes:

- Analyses for selected oxygenates by EPA Method 8260B; results reported in µg/l.
- <: Less than the report limit specified in the laboratory report.

APPENDICES

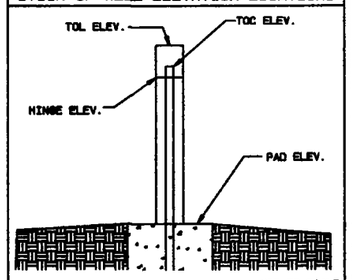
APPENDIX A
Professional Survey

02261 MONITOR WELLS				
WELL	TOL ELEV.	TOC ELEV.	PAD ELEV.	HINGE ELEV.
MW-1	101.44	101.09	N / A	N / A
MW-2	105.92	105.45	N / A	N / A
MW-3	102.81	102.34	N / A	N / A
MW-4	104.32	103.89	N / A	N / A
MW-5	110.03	109.60	N / A	N / A
MW-6	101.39	101.00	N / A	N / A
MW-7	96.92	96.55	93.74	96.42
MW-8	98.18	97.79	95.15	97.68
MW-9	101.82	101.45	98.55	101.30
MW-10	102.57	102.08	N / A	N / A
MW-11	101.86	101.41	N / A	N / A
MW-12	103.80	103.43	N / A	N / A
MW-13	102.57	102.12	N / A	N / A
MW-14	104.44	104.11	N / A	N / A
TW-1	97.20	96.74	93.78	96.68
TW-2	98.14	97.63	94.97	97.61
TW-3	101.59	101.30	98.36	101.07
TW-4	104.29	104.00	N / A	N / A
TW-5	102.40	102.09	N / A	N / A

18871 MONITOR WELLS		
WELL	TOL ELEV.	TOC ELEV.
MW-6	99.35	99.07
MW-10	100.41	100.03
MW-17	99.97	99.65
MW-17D	99.90	99.61
MW-20	101.98	101.77
MW-20D	102.14	101.93
MW-21	101.45	101.00
MW-21D	101.31	101.04
MW-22	100.65	100.24
MW-22D	100.94	100.55

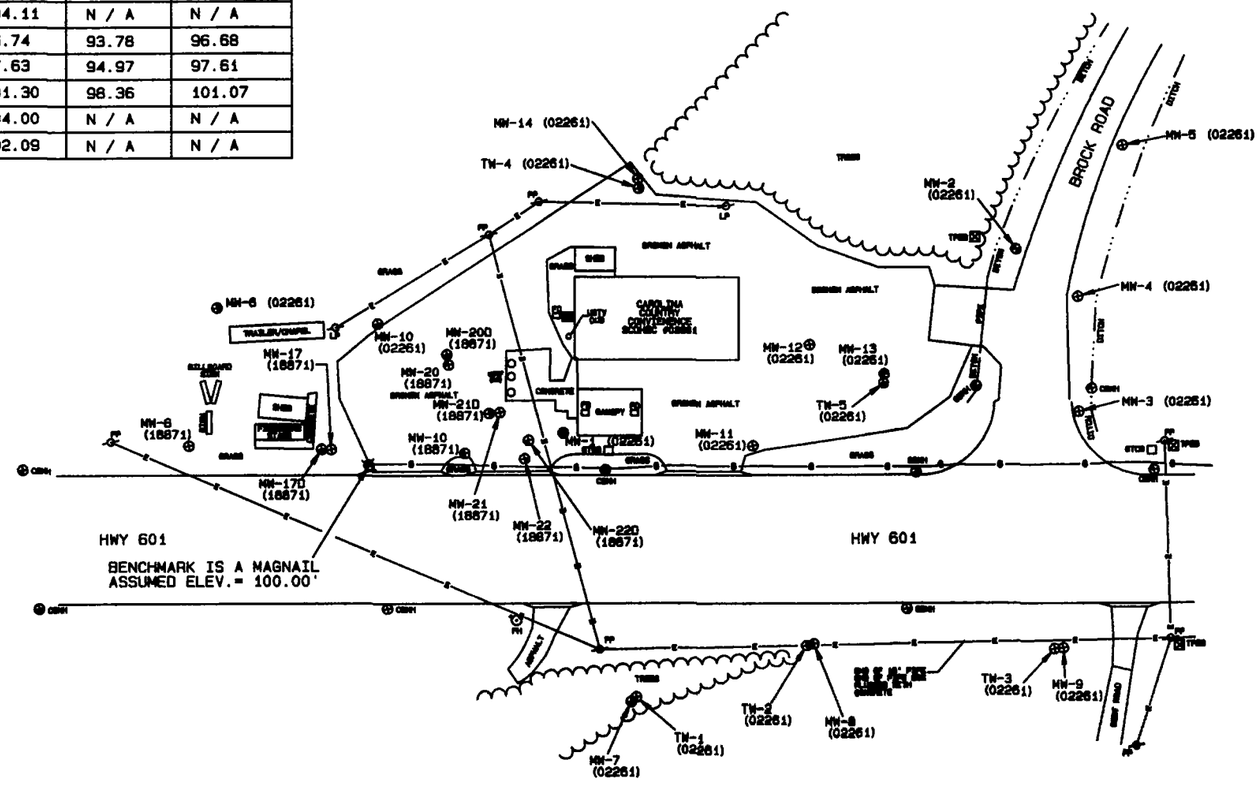
SC STATE PLANE COORDINATE SYSTEM NAD 83 GRID NORTH

STICK UP WELL ELEVATION LOCATIONS



LEGEND AND ABBREVIATIONS:

- MW = MONITORING WELL
- BM = BENCHMARK
- TPED = TELEPHONE PEDESTAL
- CBMH = CATCH BASIN W/ MAN HOLE
- SSMH = SANITARY SEWER MAN HOLE
- FH = FIRE HYDRANT
- PP = POWER POLE
- LP = LIGHT POLE
- UST = UNDERGROUND STORAGE TANK
- USTF = UNDERGROUND STORAGE TANK FILL
- USTV = UNDERGROUND STORAGE TANK VENT
- GTCB = GRATE TOP CATCH BASIN
- SIGN = SIGN
- FD = FUEL DISPENSER
- KD = KEROSENE DISPENSER
- —E— = OVERHEAD POWER LINE
- —G— = GAS LINE
- —T— = UNDERGROUND TELEPHONE LINE
- = WOOD LINE



GRAPHIC SCALE 1"=50'

0 50 100 150

NOTE:
NOT FOR THE PURPOSE OF RECORDATION AT COUNTY COURTHOUSE OR THE CONVEYANCE OF PROPERTY.

NOTE:
I HEREBY CERTIFY THAT THE FIELD WORK, CALCULATIONS, AND DRAFTING WERE DONE UNDER MY DIRECT SUPERVISION.

SOUTH CAROLINA REGISTERED LAND SURVEYOR No. 14811 JAY S. JOSHI

SOUTH CAROLINA CONSTRUCTION SUPPORT SERVICES No. C08408 CERTIFICATE OF AUTHORIZATION

COMPREHENSIVE SITE SKETCH OF

CAROLINA COUNTRY CONVENIENCE

1906 HWY 601 N
PAGELAND, CHESTERFIELD COUNTY, SC
SCDHEC SITE ID #02261
PREPARED FOR

GEOLOGICAL RESOURCES, INC.

JAY S. JOSHI PLS # 14811
P.O. BOX 90408, COLUMBIA, SC, 29290 803-776-9909
DATE: DECEMBER 17, 2014 JOB #121114C

APPENDIX B

Chesterfield County Tax Information – Adjoining/Adjacent Property Owners

County Line
City Boundary
Parcels
Subdivision
Tax Map Index

2012 MrSids
homes_09
Master Buildings

Parcel Hooks
Lots
Roads

The Chesterfield County Government makes no claims as to the completeness, accuracy or content of any data contained hereon, and makes no representation of any kind, including, but not limited to, the warranty of the accuracy or fitness for a particular use, nor are any such warranties to be implied or inferred with respect to the information or data furnished herein. For tax purposes only.

THINK

New Card

Old 19-62

COMMERCIAL-INDUSTRIAL APPRAISAL CARD

SOUTH CAROLINA COUNTY _____

CARD 1 OF 1 CARDS

PROPERTY CLASS _____

TAX MAP 30-6	DISTRICT	DATE OF APPRAISAL	APPRAISER

Owners Name & Address — Lessor	Occupants Name & Address — Lessee	Property Location
Wilson's Incorporated Box 1839 Lancaster SC 29720	Carolina Convenience Store	St. Rt. & No. 1908 Hwy 601 N Pageland Legal Desc. State Standard Class Occupancy

Transferred From	Deed Book	Deed Page	Acres or Lots	Plat Book	Plat Page	Date of Sale	Sales Prices	Affidavit	Mortgage	Stamps
E Clyburn Wilson	146	279	lot	11	148	10-14-60	$1 00			

INCOME APPROACH

Econ. Life		Int. Rate	
Econ. Rent		Cap. Rate	
Expenses		Income	
Net Inc.		Cap. Rate	
Inc. to Land		Imp. Value	
Inc. to Imp.		Land Value	
Recapture		Total Value	

PROPERTY DATA

Neighborhood		Transportation		Land Imp.		Utilities		Topography	
Progressive		Paved Road	✓	Buildings	✓	Electricity	✓	Level	✓
Static	✓	Earth Road		Pavement	✓	Water	✓	High	
Regressive		Railroad		Fence		Gas		Low	
Old		Water		Landscaping		Sewer	✓	Rolling	
New		Airport		Well		All Utilities	✓	Swampy	

ZONING

Residential		Industrial	✓
Commercial	✓	Agricultural	

Returned - lot
Legal - 1.6
Plat - 1.6

Commsite 1.6 @ 7000 = 11200

ESTIMATED MARKET VALUE

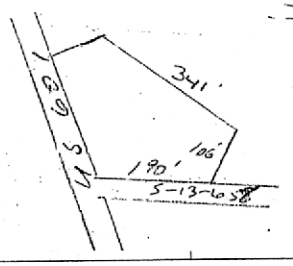
	Ac.	LOTS	IMPS.	TOTAL
Number		1	1	
Correlated Value	11200		99500	110700
Appeal Value				
Assessed %				

Reviewed By	
Date	

LEASE ____ BK ____ PG. ____ NO. YRS. ____ REM. YRS. ____ RENT ____ L/P ____

LAND VALUATION

Frontage	Depth	Depth Factor	Unit	Unit Value	Lot Value	Corner Influ	Distracting	Total
						Tota		



Measured By _____ Date _____

PT 169

COMMERCIAL BUILDING RECORD

FOUNDATION - 1
Concrete
Conc. Block
Tile
Brick
Stone
EXTERIOR WALLS - 2
Solid Com. Br.
C. Br. on Tile or CB
Face Br. on Com. Br.
F. Br. on Tile or C.B.
Face Br. Veneer
Com. Br. Veneer
Concrete Block
Tile
Reinf. Conc.
Cut Stone Facing
T. C. Facing
Stone or T. C. Trim
Stucco on Tile or C.B.
Siding
Shingles
Metal
Party Wall
Load Bearing
STORE FRONT - 3
Plate Glass Met. Fr.
Plate Glass Wd. Fr.
Average Recess
Deep Recess
No. Entrances
Display Island
Ultra Mod. Front
Modern Front
Average Front
Poor Front
BASEMENT - 4
Area ¼ ½ ¾ F
Fin. ¼ ½ ¾ F
Apts. Stock Sales
Boiler Rm. Only
ROOF AND TYPE - 5
Metal
Reinf. Conc.
Tar & Gravel
Composition
Flat
Gable

FLOORS - 6	B	1	2	3	4
Concrete					
Earth					
Hardwood					
Pine					
Carpet					
Terrazzo					
Reinf. Conc.					
Tile					

CEILINGS - 7	B	1	2	3	4
Plaster					
Metal					
Sheet Rock					
No Ceiling					
Acoust.					

INTERIOR FIN. - 8	B	1	2	3	4
Pine					
Hardwood					
Plaster					
Sheetrock					
Plast. Bd.					
Panel					
Unfin.					

PARTITIONS - 9
Wd. Stud
Tile or C. B.
Brick
Sheetrock
Panel

ENVIRONMENTAL - 10
Steam
Hot Water
Forced Air
Electric
Unit Heaters
Air Cond.
Oil
Gas
Stoker
No Heat

WIRING - 11
Knob & Tube
Armored Cable
Pipe Conduit
Romex

PLUMBING - 12
Bath Rooms
Toilet Rooms
Water Closets
Urinals
Lavatories
Sinks

CER. TILING - 13
Bath Flr. & WSCT.
Ter. Flr. & WSCT.
Bath Rm. Flr.

MISC. - 14
Fire Proof Const.
Mill Const.
Rein. Con. B. & Cls.
Steel Frame
Steel Beams & Col.
Steel Trusses
Steel or Bar Joist
Tbr Beams & Cols.
Wood Joist
Sprinkler System
Pass Elev.
Freight Elev.
Decking
Yr. Built
Yr. Remodel
Fireplace
Steel Fr. Sash
Wood Fr. Sash
Fire Escapes

Cond.	E	G	F	P
Int. Fin.				
Layout				

LIGHTING - 13
Good
Average
Poor
Flourscent
Incandescent

LOCATION
Exc.
Good
Fair
Poor

ADDITIONS COMPUTATIONS

Item No.	Area	Unit Cost	Total

FARM APPRAISAL CARD

SOUTH CAROLINA

COUNTY Chesterfield

CARD 1 OF 1 CARDS

TAX MAP	DISTRICT	DATE OF APPRAISAL	APPRAISER
30 - 5			

030 000 000 005
CIRCLE S RANCH INC

1604 CIRCLE S RANCH RD
MONROE NC 28112

TRANSFERRED FROM	Deed Book	Deed Page	Acres or Lots	Plat Book	Plat Page	Date of Sale	SALES PRICE
J T Rayfield & Others	145	184	25.6			4-12-60	$200.00
E. Clyburn Wilson W&O Rolle							
Evelyn W. Clancy (int)	274	706	3 tracts	32	52	2-28-77	$10,267.00
Carolyn W. Scott (int)	274	710	same as			3-2-77	$10,267.00
Ruth Elizabeth Wilson	458	1004	21.22	C-13I		7/20/10	$32,000.00
Franklin W Howey Jr.	462	309	tracts	C	13II	3/1/11	$2,985,000.00

PROPERTY LOCATION	GENERAL DATA
St., Rt. & No.	Yr. Built
City	Economic Life
Use	Condition
Subdivision	Quality
Legal Description Borders east of US 601 & north of S-13-658	Annual Rent
	Bldg. Permit
	Mort.

STANDARD CLASSIFICATION				PROPERTY DATA			
NEIGHBORHOOD		TRANSPORTATION		LAND IMP.		UTILITIES	
Progressive		Paved Road	✓	Buildings		Electricity	
Static	✓	Earth Road		Pavement		Water	
Regressive		Railroad		Fence		Gas	
Old		Water		Landscaping		Sewer	
New		Airport		Well		All Utilities	

LAND

Number of Acres	Number of Lots
Per Acre Value	Number of Front Ft.
Value for Acres	Per Lot Value
Returned Area 17.2	Per Front Ft. Value
Legal Area Part of 21.22	Value for Lots
Planimetered Area 17.2	Value for Fr. Ft.
Total Land Value	

ESTIMATED MARKET VALUE

	Land Acres or Lots	Improvement	Total
Number	17.3		
Cost Approach	107260	—	107260
Market Approach			
Income Approach			
Correlated Value			
Assessed %			

Reviewed by Date

TRACT 1 & 2

LAND VALUATION

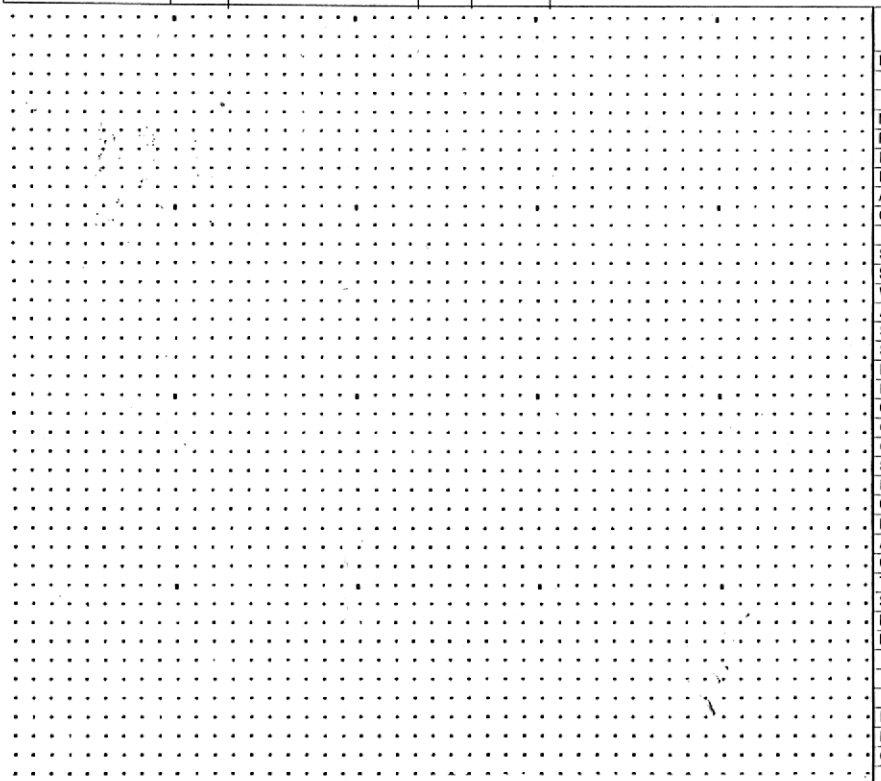
CLASS	ACRES	MARKET VALUE Price per Acre	MARKET VALUE Total	USE VALUE Price per Acre	USE VALUE Total
OPEN	11.3			153	1730
TIMBER	6.0			136	820
MV	17.3	6200	107260		
TOTAL			107260		2550

LAND VALUATION BY YEAR

	19____	19____	19____	19____	19____
Market Value	MV-17.3X3500=60,550				
Use Value					
Difference					

PT 168

DESIGN		OCCUPANCY		Ref. No.	Class or Type	Yr. Built	Cond.	Area	Rate	1st Cost	Additions	Replacement Cost	Dep.	Improved Cost
Ranch		Single Family												
Split Level		Fam. Rented												
Colonial		Fam. Duplex												
Cape Code		Condominiums												
Conventional														
Modern														



SALE NO.				
Adt.	**1.**	**2.**	**3.**	**4.**
Sales Price				
Time				
Location				
Physical Characteristics				
Size				
Adjusted Sales Price				

FOUNDATION - 1	
Masonry Walls	

BASEMENT AREA - 9		
None	Full	
Part	Sq. Ft.	
Finished		
Rec.		
Apt.	Sq. Ft.	
Garage		

EXTERIOR WALLS - 2
Siding or Sheathing
Single Siding
Wood Shingles
Asbestos Shingles
Stucco on Frame
Stucco on Tile or C.B.
Face Brk. Veneer
Face Brk. on Tile or C.B.
Com. Brk. Veneer
Com. Brk. on Tile or C.B.
Compo. Shingles
Solid Com. Brk.
Face Br. on Com. Br.
Cement or Conc. Blk.
Reinforced Concrete
Aluminum Siding
Cut Stone Facing
Terra Cotta Facing
Stone or T.C. Trim
Party Walls
Plate Glass Front

ROOF TYPE - 3	
Hip	Gable
Mansard	Flat
Gambrel	

ROOFING - 3
Asphalt Shingles
Slate
Asbestos Shingles
Metal Deck
Roll Roofing
Tar & Gravel
Composition

INSULATION - 3
Roof or Ceiling
Wall
Storm Sash & Doors

CONDITION	G	F	P
Int. Finish			
Layout			
Structure			
LOCATION			

FLOORS - 4	B	1	2	3
Concrete				
Earth				
Hardwood				
Pine				
Single Fl.				
Asphalt Tile				
Terrazzo				
W. W. Carp.				
Reinf. Conc.				
Wood Joist.				
Rubber Tile				

INT. FIN. - 5	B	1	2	3
Hardwood				
Dry Wall				
Knotty Pine				
Unfinished				
L & P on Studs				
Plast. on				
Painted Blk.				
Panel				
Acoustic Ceil				
Suspend. Ceil				
No. Rooms				
No. Bedrooms				

ENVIRONMENTAL
Warm Air
Steam
Hot Water or Vapor
Forced Air
Unit Heaters
Air Cond.
No Heating
Heat Pump
Electric

FUEL	Unit	Conv.
Oil		
Gas		
Stoker		
Elec.		

ELECTRICAL - 7
Armored Cable BX
Pipe Conduit
Romex

PLUMBING - 6	B	1	2	3
Bathroom No.				
St. Sh. Bath				
Two Fixt. Bath				
St. Shower				
Water Closets				
Lavatories				
Kitch Sinks				
No Plumbing				

TILING - 5	C	1	2	3
Bath Fl. & Wsct.				
Bath Fl. & Walls				
Bath Fl. Only				
T. Rm. Fl Only				
Tub Only				
St. Shower				
Kit Floor				
Kit. Wsct.				

MISCELLANEOUS
Modern Kitchen
B.I. Range
B.I. Oven
B.I. Refrig.
B.I. Dishwasher
B.I. Garb. Disp.
Exhaust Fan
B.I. Clothes Wash.
B.I. Dryer
Modern Bath
B.I. Vanity
B.I. Tub Encl.
B.I. Vacuum sys.
Metal Frame Sash
Wood Frame Sash
Gutters

OUT BUILDINGS
Wall Fdn.
Single Siding
Double Siding
Shingle Walls
Stucco On.
Cement Blk.
Brick
Concrete Flr.
Earth Flr.
Fin. Int.

FIREPLACES - TYPE
Double
Single
Stone

TOTAL

Additions or Deductions

Item No.	Area or Quant.	Unit Cost

Total Additions	

REMARKS

WSW-3

RESIDENTIAL APPRAISAL CARD

SOUTH CAROLINA

COUNTY Chesterfield

CARD 1 OF 1 CARDS

TAX MAP 30-7	DISTRICT	DATE OF APPRAISAL	APPRAISER

030 000 000 007
MOREE ALVIN E & KENNETH E

411 MORALE PRICE RD
PAGELAND SC 29728

TRANSFERRED FROM	Deed Book	Deed Page	Acres or Lots	Plat Book	Plat Page	Date of Sale	SALES PRICE
C. M. Tucker	255	261	.3			2-1-63	700.00
Edward Moree	Will	Roll # 85ES13-201				7-13-85	
~~Geneva~~ Mullis Moree Dailey	446	791	.3			9-12-08	5.00
Alvin & Kenneth Moree	457	1395	.3			6/24/10	5.00
Geneva M. Dailey	457	1400	.3			6/24/10	5.00
Kenneth Eugene Moree	457	1405	.3			6/24/10	5.00

PROPERTY LOCATION	GENERAL DATA
St., Rt. & No. 67 Brock Rd	Yr. Built
City	Economic Life
Use	Condition
Subdivision	Quality
Legal Description 350 ft east of I/S 601 & S-13-658 INT	Annual Rent
	Bldg. Permit
	Mort.

STANDARD CLASSIFICATION

NEIGHBORHOOD		TRANSPORTATION	
Progressive		Paved Road	✓
Static	✓	Earth Road	
Regressive		Railroad	
Old		Water	
New		Airport	

PROPERTY DATA

LAND IMP.		UTILITIES	
Buildings	✓	Electricity	✓
Pavement		Water	
Fence		Gas	
Landscaping		Sewer	
Well	✓	All Utilities	

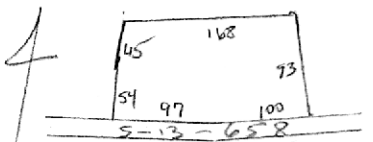
LAND CLASSIFICATION

TOPOGRAPHY	LAND CLASS	NO. OF ACRES	VALUE PER ACRE	VALUE PER CLASS
Level ✓	Open Land			
High				
Low	MV	0.3		5000
Rolling				
Swampy				
LOT SIZE	FRONT	DEPTH	REAR	OTHER

LAND

Number of Acres		Number of Lots	1
Per Acre Value		Number of Front Ft.	
Value for Acres		Per Lot Value	
Returned Area	0.3	Per Front Ft. Value	
Legal Area	1L	Value for Lots	
Planimetered Area	0.3	Value for Fr. Ft.	
Total Land Value			

Remarks & Description



ESTIMATED MARKET VALUE

	Land Acres or Lots	Improvement	Total
Number	1L	1	
Cost Approach	5000	25500	33500
Market Approach			
Income Approach			
Correlated Value			
Assessed %			

Reviewed by _____ Date _____

MV-.3X5000=1500

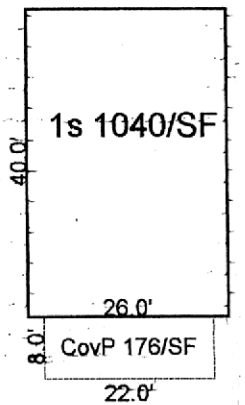
Deed Description

Zoning (LEAVE)

PT-167

DESIGN		OCCUPANCY		Ref. No.	Class or Type	1.0	Yr. Built	Cond.	Area	Rate	1st Cost	Additions	Replacement Cost	Dep.	Improved Cost
Ranch		Single Family		1	House		1945	L	1040					45%	23764
Split Level		Fam. Rented													
Colonial		Fam. Duplex													
Cape Code		Condominiums													
Conventional	✓														
Modern															

(2) Bldg 13x8
Flat R, Tin R
Wood St Conc
Blk F.
No CHARGE



FOUNDATION - 1	
Masonry Walls	✓
Conc Blk	✓
BASEMENT AREA - 9	
None / Full	
Part / Sq. Ft.	
Finished	
Rec.	
Apt. / Sq. Ft.	
Garage	
EXTERIOR WALLS - 2	
Siding or Sheathing	
Single Siding	✓
Wood Shingles	
Asbestos Shingles	
Stucco on Frame	
Stucco on Tile or C.B.	
Face Brk. Veneer	
Face Brk. on Tile or C.B.	
Com. Brk. Veneer	
Com. Brk. on Tile or C.B.	
Compo. Shingles	
Solid Com. Brk.	
Face Br. on Com. Br.	
Cement or Conc. Blk.	
Reinforced Concrete	
Aluminum Siding	
Cut Stone Facing	
Terra Cotta Facing	
Stone or T.C. Trim	
Party Walls	
Plate Glass Front	
ROOF TYPE - 3	
Hip / Gable	
Mansard / Flat	
Gambrel	
ROOFING - 3	
Asphalt Shingles	
Slate	
Asbestos Shingles	
Metal Deck	
Roll Roofing	
Tar & Gravel	
Composition	
INSULATION - 3	
Roof or Ceiling	
Wall	
Storm Sash & Doors	
CONDITION	G / F / P
Int. Finish	
Layout	
Structure	
LOCATION	

FLOORS - 4	B	1	2	3
Concrete	✓			
Earth	✓			
Hardwood				
Pine				
Single Fl.				
Asphalt Tile				
Terrazzo				
W. W. Carp.			✓	
Reinf. Conc.				
Wood Joist				
Rubber Tile				
INT. FIN. - 5	B	1	2	3
Hardwood				
Dry Wall				
Knotty Pine				
Unfinished				
L & P on Studs				
Plast. on				
Painted Blk.				
Panel				
Acoustic Ceil				
Suspend. Ceil				
No. Rooms ■				
No. Bedrooms				
ENVIRONMENTAL				
Warm Air				
Steam				
Hot Water or Vapor				
Forced Air				
Unit Heaters				
Air Cond.				
No Heating				✓
Heat Pump				
Electric				
FUEL	**Unit**		**Conv.**	
Oil				
Gas				
Stoker				
Elec.				
ELECTRICAL - 7				
Armored Cable BX				
Pipe Conduit				
Romex				

PLUMBING - 6	B	1	2	3
Bathroom No.		1		
St. Sh. Bath				
Two Fixt. Bath				
St. Shower				
Water Closets				
Lavatories				
Kitch Sinks				
No Plumbing				
TILING - 5	C	1	2	3
Bath Fl. & Wsct.				
Bath Fl. & Walls				
Bath Fl. Only				
T. Rm. Fl Only				
Tub Only				
St. Shower				
Kit Floor				
Kit. Wsct.				
MISCELLANEOUS				
Modern Kitchen				
B.I. Range				
B.I. Oven				
B.I. Refrig.				
B.I. Dishwasher				
B.I. Garb. Disp.				
Exhaust Fan				
B.I. Clothes Wash.				
B.I. Dryer				
Modern Bath				
B.I. Vanity				
B.I. Tub Encl.				
B.I. Vacuum sys.				
Metal Frame Sash				
Wood Frame Sash				
Gutters				
OUT BUILDINGS				
Wall Fdn.				
Single Siding				
Double Siding				
Shingle Walls				
Stucco On.				
Cement Blk.				
Brick				
Concrete Flr.				
Earth Flr.				
Fin. Int.				
FIREPLACES - TYPE				
Double				
Single				
Stone				

SALE NO.				
Adt.	1.	2.	3.	4.
Sales Price				
Time				
Location				
Physical Characteristics				
Size				
Adjusted Sales Price				

TOTAL 25500

Additions or Deductions

Item No.	Area or Quant.	Unit Cost
Hse Needs lots of Repairs.		

Total Additions

REMARKS

1971 - 65X12
Superior
#13810

1971 - 66X12
Ritzcraft
#13811

2012 Request for Review. Both mobile homes off for 2012 tax yr. V/A done 1/18/12

Owner and Location

Current Year (2014) Changes

Search Options

Map Number: 030 000 000 008 | Real | 00179393 | History Year: | Find

Name 1: BUNDRICK PHILIP R & JUDY KAYE | Other Map Number:

Alerts: Has Additional Comments

Owner Information

Post Initial: ATL | Reason for Change: | Activity Date: 02/11/2010

Name 2:

Address 1: POB 58

Address 2: PAGELAND SC

Zip Code: 29728

Land Value	28,900
Building Value	153,000
Total Market Value	181,900
Total Tax Value	161,030

Codes

District: 07 | Fire Code: 07 HIGH POINT

Town: | Neighborhood:

Subdivision: | Use Class:

Description: 8 4 ACRES

Legal:

Location: Street Number: 1814 | Street Name: HWY 601 | Suffix: | Direction: N

Additional Information

Appraisal Appeal: | Owner Occupied: | TIF: | Base:

Agricultural Use: | Reappraisal Notice: | MCIP: | Industrial Park ID:

Rollback: | Exempt:

Scroll by: MAP#

FARM APPRAISAL CARD

SOUTH CAROLINA

COUNTY Chesterfield

CARD 1 OF 1 CARDS

TAX MAP	DISTRICT	DATE OF APPRAISAL	APPRAISER
19- 38			

019 000 000 038
HUNDRED OAKS PARTNERS LLC
% JAMES P BELK
111 VIRGINIA ST SUITE 401
RICHMOND VA 32319

TRANSFERRED FROM	Deed Book	Deed Page	Acres or Lots	Plat Book	Plat Page	Date of Sale	SALES PRICE
Ralph N. Belk	240	651	108			6-25-76	$ [illegible]
JSJ Associates	386	47	.324			12-6-01	#1300. [illegible]
JSJ Associates	441	1138	4 tracts			12/19/07	Correction

PROPERTY LOCATION		GENERAL DATA		COST DATA		INCOME APPROACH		
St., Rt. & No.		Yr. Built		Land		Econ. Rent	Cap. Rate	Remarks:
City		Economic Life		Imp.		Expenses	Income	
Use		Condition		L. H.		Net Inc.	Cap. Rate	
Subdivision		Quality		Total		Land Inc.	Imp. Value	
Legal Description	1400 ft NE of	Annual Rent		Stamps		Imp. Inc.	Land Value	
SC 207 & S-13-682 INT. &		Bldg. Permit		Old Map Ref.		Recap	Total Value	
borders SW of U.S. 601		Mort.		File No.		Int. Rate		

STANDARD CLASSIFICATION				PROPERTY DATA			
NEIGHBORHOOD		TRANSPORTATION		LAND IMP.		UTILITIES	
Progressive		Paved Road	✓	Buildings	✓	Electricity	✓
Static	✓	Earth Road		Pavement		Water	
Regressive		Railroad		Fence		Gas	
Old		Water		Landscaping		Sewer	
New		Airport		Well	✓	All Utilities	

LAND

Number of Acres		Number of Lots	
Per Acre Value		Number of Front Ft.	
Value for Acres		Per Lot Value	
Returned Area	107.7	Per Front Ft. Value	
Legal Area	107.67	Value for Lots	
Planimetered Area		Value for Fr. Ft.	
Total Land Value			

ESTIMATED MARKET VALUE

	Land Acres or Lots	Improvement	Total
Number	107.7		
Cost Approach			
Market Approach	161500		161500
Income Approach			
Correlated Value			
Assessed %			

Reviewed by _____ Date _____

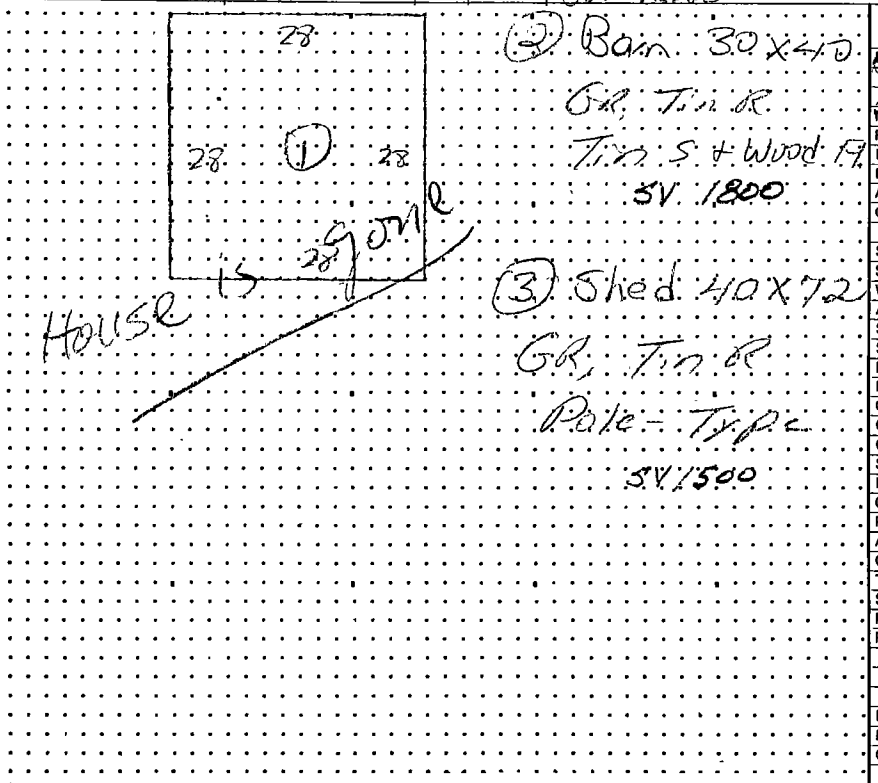
LAND VALUATION

CLASS	ACRES	MARKET VALUE		USE VALUE	
		Price per Acre	Total	Price per Acre	Total
OPEN	107.7			153	16480
MW	107.7	1500	161500		
TOTAL			161500		16480

LAND VALUATION BY YEAR

	19____	19____	19____	19____	19____
Market Value	MW-107.7	x2000-	215,400		
Use Value					
Difference					

DESIGN		OCCUPANCY		Ref. No.	Class or Type 1.5	Yr. Built	Cond.	Area	Rate	1st Cost	Additions	Replacement Cost	Dep.	Improved Cost
Ranch		Single Family	✓	1	HOUSE	1955	Ta 7	784	31.33	24,564			60%	~~9,826~~
Split Level		Fam. Rented		2	Barn 30 x 40			SV	@	1,800				NV
Colonial		Fam. Duplex		3	Shed 40 x 72			SV	@	1,500				NV
Cape Code		Condominiums												
Conventional	✓													
Modern														
					OUT BLDGS									



FOUNDATION - 1		FLOORS - 4	B	1	2	3	PLUMBING - 6	B	1	2	3
Masonry Walls		Concrete					Bathroom No.		✓		
Conc. Blk	✓	Earth					St. Sh. Bath				
BASEMENT AREA - 9		Hardwood					Two Fixt Bath				
None	Full	Pine					St Shower				
Part	Sq. Ft.	Single Fl.					Water Closets				
Finished		Asphalt Tile				✓	Lavatories				
Rec.		Terrazzo			✓		Kitch Sinks				
Apt.	Sq Ft.	W. W. Carp.					No Plumbing				
Garage		Reinf Conc.									
EXTERIOR WALLS - 2		Wood Joist									
Siding or Sheathing		Rubber Tile									
Single Siding		**INT. FIN. - 5**	B	1	2	3	**TILING - 5**	C	1	2	3
Wood Shingles		Hardwood					Bath Fl. & Wsct				
Asbestos Shingles		Dry Wall					Bath Fl. & Walls				
Stucco on Frame		Knotty Pine					Bath Fl. Only				
Stucco on Tile or C.B.		Unfinished					T. Rm. Fl Only				
Face Brk Veneer		L & P on Studs					Tub Only				
Face Brk. on Tile or C.B.		Plast. on					St Shower				
Com. Brk. Veneer		Painted Blk					Kit Floor				
Com. Brk. on Tile or C.B.		Panel					Kit. Wsct.				
Compo. Shingles		Acoustic Ceil					**MISCELLANEOUS**				
Solid Com. Brk.		Suspend Ceil					Modern Kitchen				
Face Br. on Com. Br							B.I. Range				
Cement or Conc. Blk	✓						B.I. Oven				
Reinforced Concrete							B I. Refrig.				
Aluminum Siding							B I Dishwasher				
Cut Stone Facing		No. Rooms					B.I. Garb Disp.				
Terra Cotta Facing		No. Bedrooms					Exhaust Fan				
Stone or T.C Trim							B.I. Clothes Wash.				
Party Walls							B I Dryer				
Plate Glass Front							Modern Bath				
		ENVIRONMENTAL					B.I. Vanity				
ROOF TYPE - 3		Warm Air					B.I. Tub Encl.				
Hip	Gable	Steam	✓				B I. Vacuum sys.				
Mansard	Flat	Hot Water or Vapor					Metal Frame Sash				
Gambrel		Forced Air					Wood Frame Sash				
ROOFING - 3		Unit Heaters					Gutters				
Asphalt Shingles		Air Cond	✓								
Slate		No Heating				✓					
Asbestos Shingles		Heat Pump					**OUT BUILDINGS**				
Metal Deck		Electric					Wall Fdn.				
Roll Roofing							Single Siding				
Tar & Gravel							Double Siding				
Composition							Shingle Walls				
		FUEL	**Unit**		**Conv.**		Stucco On.				
INSULATION - 3		Oil					Cement Blk.				
Roof or Ceiling		Gas					Brick				
Wall		Stoker					Concrete Flr				
Storm Sash & Doors		Elec.					Earth Flr.				
		ELECTRICAL - 7					Fin. Int.				
CONDITION		Armored Cable BX									
	G F P	Pipe Conduit					**FIREPLACES - TYPE**				
Int. Finish		Romex					Double				
Layout							Single				
Structure							Stone				
LOCATION											

TOTAL

Additions or Deductions

Item No.	Area or Quant.	Unit Cost

Total Additions

REMARKS

SALE NO.				
Adt.	**1.**	**2.**	**3.**	**4.**
Sales Price				
Time				
Location				
Physical Characteristics				
Size				
Adjusted Sales Price				

WSW-1

COMMERCIAL-INDUSTRIAL APPRAISAL CARD

SOUTH CAROLINA COUNTY Colleton

CARD 2 OF 2 CARDS

PROPERTY CLASS

TAX MAP 30-4	DISTRICT	DATE OF APPRAISAL	APPRAISER

030 000 000 004
JOHNSON EDDIE M
680 Piney Neck Rd
~~1943 HWY 601 N~~
~~EDISTO SC 29438~~
Varnville NC 28586

Occupants Name & Address — Lessee

Eddie's Pit Stop (Restaurant)

Property Location

St. Rt. & No. 1943 Hwy 601 N

Legal Desc. Borders West Side US 601 at US 601 + S-13-658 Int

State Standard Class

Occupancy

	Deed Book	Deed Page	Acres or Lots	Plat Book	Plat Page	Date of Sale	Sales Prices	Affidavit	Mortgage	Stamps
Mrs Johnny Walker aka Snow White Mills Walker	251	133	.92	28	168	4-14-78	14,000 00			
LOU ELLEN J. JOHNSON (½ INT)	290	68	.92			10-25-84	5 00			
Eddie M Johnson R/W (into only)	399	791	.29			11-7-02	16,632.36			
Deed 414/1224										
Eddie M. Johnson	415	1183	.92	28	168	12/15/04	11,000.00			
Matthew Jordan Johnson	421	350	.92	28	168	12/19/05	11,000.00			

INCOME APPROACH

Econ. Life		Int. Rate	
Econ. Rent		Cap. Rate	
Expenses		Income	
Net Inc.		Cap. Rate	
Inc. to Land		Imp. Value	
Inc. to Imp.		Land Value	
Recapture		Total Value	

PROPERTY DATA

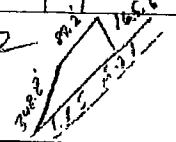
Neighborhood		Transportation		Land Imp.		Utilities		Topography	
Progressive		Paved Road	✓	Buildings	✓	Electricity	✓	Level	✓
Static	✓	Earth Road		Pavement		Water		High	
Regressive		Railroad		Fence		Gas		Low	
Old		Water		Landscaping		Sewer		Rolling	✓
New		Airport		Well	✓	All Utilities		Swampy	

ZONING

Residential		Industrial	
Commercial	✓	Agricultural	

Returned 0.92 - 0.29 R/W
Legal 0.63
Plan 0.63

Site 0.63 (a) 3[illegible] LT 150 / 5000



ESTIMATED MARKET VALUE

	Ac.	LOTS	IMPS.	TOTAL
Number		1	1	
Correlated Value	5000	3000	8000	
Appeal Value				
Assessed %				

Reviewed By

Date

Measured By _____ Date

LEASE ____ BK ____ PG. ____ NO. YRS. ____ REM. YRS. ____ RENT ____ L/P ____

LAND VALUATION

Frontage	Depth	Depth Factor	Unit	Unit Value	Lot Value	Corner Influence	Distracting Influences	Total

Total Land Value

COMMERCIAL BUILDING RECORD

4607

FOUNDATION - 1
- Concrete
- Conc. Block ✓
- Tile
- Brick
- Stone

EXTERIOR WALLS - 2
- Solid Com. Br.
- C. Br. on Tile or CB
- Face Br. on Com. Br.
- F. Br. on Tile or C.B.
- Face Br. Veneer
- Com. Br. Veneer
- Concrete Block ✓
- Tile
- Reinf. Conc.
- Cut Stone Facing
- T. C. Facing
- Stone or T. C. Trim
- Stucco on Tile or C.B.
- Siding
- Shingles
- Metal
- Party Wall
- Load Bearing

STORE FRONT - 3
- Plate Glass Met. Fr.
- Plate Glass Wd. Fr.
- Average Recess
- Deep Recess
- No. Entrances
- Display Island
- Ultra Mod. Front
- Modern Front
- Average Front
- Poor Front

BASEMENT - 4

	¼	½	¾	F
Area				
Fin.				

- Apts. Stock Sales
- Boiler Rm. Only

ROOF AND TYPE - 5
- Metal
- Reinf. Conc.
- Tar & Gravel
- Composition ✓
- Flat
- Gable ✓

FLOORS - 6

	B	1	2	3	4
Concrete	✓				
Earth					
Hardwood					
Pine					
Carpet					
Terrazzo					
Reinf. Conc.					
Tile					

CEILINGS - 7

	B	1	2	3	4
Plaster					
Metal	✓				
Sheet Rock					
No Ceiling					
Acoust.					

INTERIOR FIN. - 8

	B	1	2	3	4
Pine					
Hardwood					
Plaster					
Sheetrock					
Plast. Bd.					
Panel					
Unfin.					

PARTITIONS - 9
- Wd. Stud
- Tile or C. B.
- Brick
- Sheetrock
- Panel

ENVIRONMENTAL - 10
- Steam
- Hot Water
- Forced Air
- Electric
- Unit Heaters
- Air Cond.
- Oil
- Gas
- Stoker
- No Heat

WIRING - 11
- Knob & Tube
- Armored Cable
- Pipe Conduit ✓
- Romex

PLUMBING - 12

Bath Rooms	2 T & S
Toilet Rooms	
Water Closets	
Urinals	
Lavatories	
Sinks	H.W.H

CER. TILING - 13
- Bath Flr. & WSCT.
- Ter. Flr. & WSCT.
- Bath Rm. Flr.

MISC. - 14
- Fire Proof Const.
- Mill Const.
- Rein. Con. B. & Cls.
- Steel Frame
- Steel Beams & Col.
- Steel Trusses
- Steel or Bar Joist
- Tbr Beams & Cols.
- Wood Joist
- Sprinkler System
- Pass. Elev.
- Freight Elev.
- Decking
- Yr. Built
- Yr. Remodel
- Fireplace
- Steel Fr. Sash
- Wood Fr. Sash
- Fire Escapes

Cond.	E	G	F	P
Int. Fin.				
Layout				

LIGHTING - 13
- Good
- Average
- Poor
- Flourscent
- Incandescent

LOCATION
- Exc.
- Good
- Fair
- Poor

ADDITIONS COMPUTATIONS

Item No.	Area	Unit Cost	Total

WSW-2

RESIDENTIAL APPRAISAL CARD

SOUTH CAROLINA

COUNTY

CARD 1 OF 1 CARDS

TAX MAP	DISTRICT	DATE OF APPRAISAL	APPRAISER
30-3			

030 000 000 003
CASPER CATHY T
% MRS THREATT
2003 HWY 601 NORTH
PAGELAND SC 29728

TRANSFERRED FROM	Deed Book	Deed Page	Acres or Lots	Plat Book	Plat Page	Date of Sale	SALES PRICE
J T + P.W. [illegible]	114	79	.2			4-29-49	200
C.M. Tucker	104	223	1.83			4-16-46	2000
[illegible]	285	9	1.1			12-2-03	$[illegible]
Cathy T. Casper	366	52	.173			1-2-01	$25,500.

PROPERTY LOCATION	GENERAL DATA	COST DATA	MOBILE HOME	INCOME APPROACH
St., Rt. & No.	Yr. Built	Land	Make	Monthly Rental
City	Economic Life	Imp.	Model	G. M. M.
Use	Condition	L. H.	Yr. Built	
Subdivision	Quality	Total	Condition	Indicated Value
Legal Description S[illegible]	Annual Rent	Stamps	Size	
[illegible]	Bldg. Permit	Old Map Ref .		
[illegible]	Mort.	File No.		

STANDARD CLASSIFICATION				PROPERTY DATA			
NEIGHBORHOOD		TRANSPORTATION		LAND IMP.		UTILITIES	
Progressive		Paved Road	✓	Buildings	✓	Electricity	✓
Static	✓	Earth Road		Pavement		Water	
Regressive		Railroad		Fence		Gas	
Old		Water		Landscaping		Sewer	
New		Airport		Well		All Utilities	✓

LAND CLASSIFICATION				
TOPOGRAPHY	LAND CLASS	NO. OF ACRES	VALUE PER ACRE	VALUE PER CLASS
Level ✓	Open Land			
High	Hmkt	1.0		
Low	Site	.9		
Rolling				
Swampy				
LOT SIZE	FRONT	DEPTH	REAR	OTHER

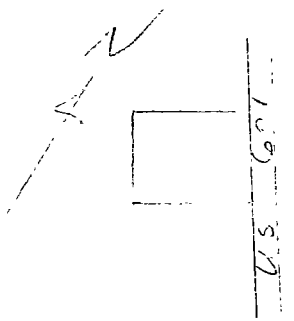
LAND

Number of Acres		Number of Lots	1
Per Acre Value		Number of Front Ft.	
Value for Acres		Per Lot Value	
Returned Area	1.9	Per Front Ft. Value	
Legal Area	1.257	Value for Lots	
Planimetered Area		Value for Fr. Ft.	
Total Land Value			

ESTIMATED MARKET VALUE

	Land Acres or Lots	Improvement	Total
Number	1L	2	
Cost Approach	12000	31900	43900
Market Approach			
Income Approach			
Correlated Value			
Assessed %			
Reviewed by		Date	

Remarks & Description

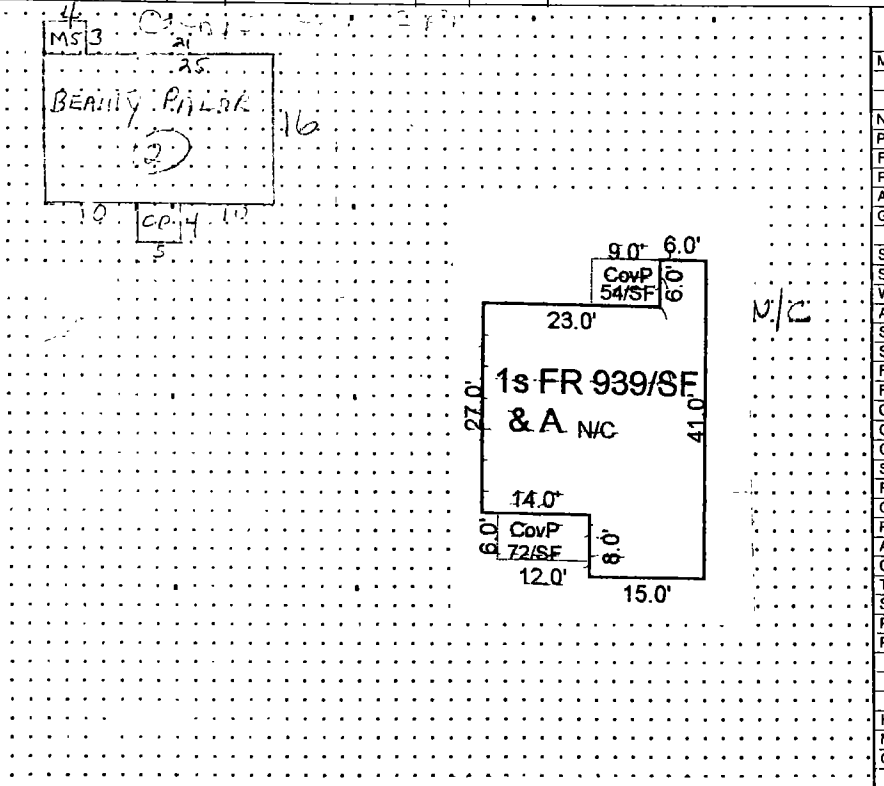


ANJ-1.9 [illegible]-9500

Zoning

PT 167

DESIGN		OCCUPANCY		Ref. No.	Class or Type 1.5	Yr. Built	Cond.	Area	Rate	1st Cost	Additions	Replacement Cost	Dep.	Improved Cost
Ranch		Single Family	✓	1	HOUSE	1-5	A	939				42220	25	27900
Split Level		Fam. Rented		2	BEAUTY SHOP			400	10.00					4000
Colonial		Fam. Duplex												
Cape Code		Condominiums												31900
Conventional	✓													
Modern														



FOUNDATION - 1		FLOORS - 4	B	1	2	3
Masonry Walls	✓	Concrete				
	✓	Earth				
BASEMENT AREA - 9		Hardwood				
None	Full	Pine				
Part	Sq. Ft.	Single Fl				
Finished		Asphalt Tile				
Rec.		Terrazzo				
Apt.	Sq. Ft.	W W Carp			✓	
Garage		Reinf Conc.				
EXTERIOR WALLS - 2		Wood Joist				
Siding or Sheathing		Rubber Tile				
Single Siding	✓	**INT. FIN. - 5**	**B**	**1**	**2**	**3**
Wood Shingles		Hardwood				
Asbestos Shingles		Dry Wall				
Stucco on Frame		Knotty Pine				
Stucco on Tile or C.B.		Unfinished				
Face Brk. Veneer		L & P on Studs				
Face Brk. on Tile or C.B.		Plast on				
Com Brk. Veneer		Painted Blk				
Com. Brk. on Tile or C.B		Panel				
Compo. Shingles		Acoustic Ceil				
Solid Com. Brk.		Suspend Ceil				
Face Br. on Com. Br						
Cement or Conc. Blk.						
Reinforced Concrete						
Aluminum Siding						
Cut Stone Facing		No. Rooms				
Terra Cotta Facing		No. Bedrooms				
Stone or T.C. Trim						
Party Walls						
Plate Glass Front						
FCast		**ENVIRONMENTAL**				
ROOF TYPE - 3		Warm Air				
Hip	Gable	✓ Steam				
Mansard	Flat	Hot Water or Vapor				
Gambrel		Forced Air				
ROOFING - 3		Unit Heaters				
Asphalt Shingles		Air Cond				
Slate		No Heating				
Asbestos Shingles		Heat Pump			✓	
Metal Deck		Electric				
Roll Roofing						
Tar & Gravel						
Composition	✓					
		FUEL	**Unit**		**Conv.**	
INSULATION - 3		Oil				
Roof or Ceiling		Gas				
Wall		Stoker				
Storm Sash & Doors		Elec.				
CONDITION		**ELECTRICAL - 7**				
	G F P	Armored Cable BX				
Int. Finish		Pipe Conduit				
Layout		Romex				
Structure						
LOCATION						

PLUMBING - 6	B	1	2	3
Bathroom No.		1		
St. Sh. Bath				
Two Fixt. Bath				
St. Shower				
Water Closets				
Lavatories				
Kitch Sinks				
No Plumbing				

TILING - 5	C	1	2	3
Bath Fl. & Wscl				
Bath Fl. & Walls				
Bath Fl. Only				
T. Rm. Fl. Only				
Tub Only				
St. Shower				
Kit Floor				
Kit Wscl.				

MISCELLANEOUS
Modern Kitchen
B I Range
B I Oven
B I. Refrig.
B.I. Dishwasher
B.I Garb Disp.
Exhaust Fan
B I. Clothes Wash
B.I Dryer
Modern Bath
B I Vanity
B.I. Tub Encl
B I. Vacuum sys.
Metal Frame Sash
Wood Frame Sash
Gutters

OUT BUILDINGS
Wall Fdn.
Single Siding
Double Siding
Shingle Walls
Stucco On.
Cement Blk
Brick
Concrete Flr
Earth Flr.
Fin Int.

FIREPLACES - TYPE
Double
Single
Stone

TOTAL 31900

Additions or Deductions

Item No.	Area or Quant.	Unit Cost

Total Additions

REMARKS

1 N

SALE NO.				
Adt.	**1.**	**2.**	**3.**	**4.**
Sales Price				
Time				
Location				
Physical Characteristics				
Size				
Adjusted Sales Price				

MEASURED BY _____ DATE _____

APPENDIX C
Access Agreements

RECEIVED JUN 2 0 2014

Geological Resources, Inc.

May 19, 2014

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Hundred Oaks Partners, LLC
C/O James P. Belk
111 Virginia Street, Suite 401
Richmond, Virginia 32319

Reference: **Request for Property Access**
Install Field Screening Points and Permanent Monitoring Wells
Incident Name: Carolina Country Convenience
1908 Highway 601 North
Pageland, Chesterfield County, SC
SCDHEC Site ID #: 02261

Dear Mr. Belk:

The Division of Underground Storage Tank Management of the South Carolina Department of Health and Environmental Control (SC DHEC) has requested additional work at an ongoing environmental assessment addressing a petroleum release at the **Carolina Country Convenience** site located at 1908 Highway 601 North in Pageland, Chesterfield County, South Carolina. Geological Resources, Inc. (GRI) is conducting the environmental assessment, and requires access to your property, which is located southwest of the subject site in Pageland, SC, in order to install approximately one field screening point and one permanent ground water monitoring well.

Analytical data obtained from the ground water samples collected from the wells will assist GRI in the assessment of the Carolina Country Convenience site. This analytical information will be provided to you if requested. A map showing the approximate location of the field screening point and monitoring well has been included. A copy of the Chesterfield County tax map showing the location of your property is attached for your reference. If you have any questions or concerns, please feel free to contact the project manager at SCDHEC, **Minda Hornosky,** at 803-898-7542, or our office in Charlotte at 1-888-870-4133. GRI anticipates commencing these field activities to begin the week of **6/9/2014**. Your timely cooperation in this matter is greatly appreciated. A copy of the SCDHEC directive has been included for your records. Please note that this assessment is being paid for by the SCDHEC Superb Trust Fund. The signed agreement can be returned by fax to (704) 845-4012 or in the attached addressed and stamped envelope.

I, James P. Belk grant Geological Resources, Inc., and their agents permission to enter my property, referenced as **Chesterfield** County tax number **019 000 000 038** to install approximately one field screening point and one permanent ground water monitoring well.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Project Manager
cc: file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

Geological Resources, Inc.

May 19, 2014

VERBAL APPROVAL FOR FIELD SCREENING WILL NOT ALLOW INSTALLATION OF PERMANENT WELLS

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Circle S Ranch Inc.
1604 Circle S Ranch Road
Monroe, North Carolina 28112

Reference: **Request for Property Access**
Install Field Screening Points and Permanent Monitoring Wells
Incident Name: Carolina Country Convenience
1908 Highway 601 North
Pageland, Chesterfield County, SC
SCDHEC Site ID #: 02261

To Whom it May Concern:

The Division of Underground Storage Tank Management of the South Carolina Department of Health and Environmental Control (SC DHEC) has requested additional work at an ongoing environmental assessment addressing a petroleum release at the **Carolina Country Convenience** site located at 1908 Highway 601 North in Pageland, Chesterfield County, South Carolina. Geological Resources, Inc. (GRI) is conducting the environmental assessment, and requires access to your property, which is located north of the site along Highway 601 North in Pageland, SC, in order to install approximately two field screening points and as many as two permanent ground water monitoring wells.

Analytical data obtained from the ground water samples collected from the wells will assist GRI in the assessment of the Carolina Country Convenience site. This analytical information will be provided to you if requested. A map showing the approximate locations of the field screening points and monitoring wells has been included. A copy of the Chesterfield County tax map showing the location of your property is attached for your reference. If you have any questions or concerns, please feel free to contact the project manager at SCDHEC, **Minda Hornosky,** at 803-898-7542, or our office in Charlotte at 1-888-870-4133. GRI anticipates commencing these field activities to begin the week of **6/9/2014**. Your timely cooperation in this matter is greatly appreciated. A copy of the SCDHEC directive has been included for your records. Please note that this assessment is being paid for by the SCDHEC Superb Trust Fund. The signed agreement can be returned by fax to (704) 845-4012 or in the attached addressed and stamped envelope.

I, _____ grant Geological Resources, Inc., and their agents permission to enter my property, referenced as **Chesterfield** County tax number **030 000 000 005** to install approximately two field screening points and as many as two permanent ground water monitoring wells.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Project Manager
cc: file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

Geological Resources, Inc.

May 19, 2014

DENIED! PHONE CALL

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Philip R. Bundrick
Post Office Box 58
Pageland, South Carolina 29278

Reference: **Request for Property Access**
Install Field Screening Points and Permanent Monitoring Wells
Incident Name: Carolina Country Convenience
1908 Highway 601 North
Pageland, Chesterfield County, SC
SCDHEC Site ID #: 02261

Dear Mr. Bundrick:

The Division of Underground Storage Tank Management of the South Carolina Department of Health and Environmental Control (SC DHEC) has requested additional work at an ongoing environmental assessment addressing a petroleum release at the **Carolina Country Convenience** site located at 1908 Highway 601 North in Pageland, Chesterfield County, South Carolina. Geological Resources, Inc. (GRI) is conducting the environmental assessment, and requires access to your property, which is located at 1814 Highway 601 North in Pageland, SC, in order to install approximately one field screening point and one permanent ground water monitoring well.

Analytical data obtained from the ground water samples collected from the wells will assist GRI in the assessment of the Carolina Country Convenience site. This analytical information will be provided to you if requested. A map showing the approximate location of the field screening point and monitoring well has been included. A copy of the Chesterfield County tax map showing the location of your property is attached for your reference. If you have any questions or concerns, please feel free to contact the project manager at SCDHEC, **Minda Hornosky,** at 803-898-7542, or our office in Charlotte at 1-888-870-4133. GRI anticipates commencing these field activities to begin the week of **6/9/2014**. Your timely cooperation in this matter is greatly appreciated. A copy of the SCDHEC directive has been included for your records. Please note that this assessment is being paid for by the SCDHEC Superb Trust Fund. The signed agreement can be returned by fax to (704) 845-4012 or in the attached addressed and stamped envelope.

I, _____ grant Geological Resources, Inc., and their agents permission to enter my property, referenced as **Chesterfield** County tax number **030 000 000 008** to install approximately one field screening point and one permanent ground water monitoring well.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Project Manager
cc: file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

Geological Resources, Inc.

March 17, 2014

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

NO RESPONSE

Eddie M. Johnson
680 Piney Neck Road
Vanceboro, North Carolina 28586

Reference: **Request for Property Access**
Sample Monitoring Wells
Incident Name: Carolina Country Convenience
1908 Highway 601 North
Pageland, Chesterfield County, SC
SCDHEC Site ID #: 02261

Dear Mr. Johnson:

The Division of Underground Storage Tank Management of the South Carolina Department of Health and Environmental Control (SC DHEC) has requested additional work at an ongoing environmental assessment addressing a petroleum release at the **Carolina Country Convenience** site located at 1908 Highway 601 North in Pageland, Chesterfield County, South Carolina. Geological Resources, Inc. (GRI) is conducting the environmental assessment, and requires access to your property, which is located at 1943 Highway 601 North in Pageland, SC, in order to sample existing monitoring wells that were installed on your property by Terracon in 2012.

Analytical data obtained from the ground water samples collected from the wells will assist GRI in the assessment of the Carolina Country Convenience site. This analytical information will be provided to you if requested. The wells that GRI would like to sample are highlighted on the attached Terracon site map. A copy of the Chesterfield County tax map showing the location of your property is attached for your reference. If you have any questions or concerns, please feel free to contact the project manager at SCDHEC, **Minda Hornosky,** at 803-898-7542, or our office in Charlotte at 1-888-870-4133. GRI anticipates commencing these field activities to begin the week of **4/7/2014**. Your timely cooperation in this matter is greatly appreciated. A copy of the SCDHEC directive has been included for your records. Please note that this assessment is being paid for by the SCDHEC Superb Trust Fund. The signed agreement can be returned by fax to (704) 845-4012 or in the attached addressed and stamped envelope.

I, _____ grant Geological Resources, Inc., and their agents permission to enter my property, referenced as **Chesterfield** County tax number **030 000 000 004** to install approximately two field screening points and as many as two permanent ground water monitoring wells.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Project Manager
cc: file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

Geological Resources, Inc.

May 19, 2014

NO RESPONSE

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. Alvin E. Moree
401 Horace Price Road
Pageland, South Carolina 29278

Reference: **Request for Property Access**
Install Field Screening Points and Permanent Monitoring Wells
Incident Name: Carolina Country Convenience
1908 Highway 601 North
Pageland, Chesterfield County, SC
SCDHEC Site ID #: 02261

Dear Mr. Moree:

The Division of Underground Storage Tank Management of the South Carolina Department of Health and Environmental Control (SC DHEC) has requested additional work at an ongoing environmental assessment addressing a petroleum release at the **Carolina Country Convenience** site located at 1908 Highway 601 North in Pageland, Chesterfield County, South Carolina. Geological Resources, Inc. (GRI) is conducting the environmental assessment, and requires access to your property, which is located at 67 Brock Road in Pageland, SC, in order to install approximately one field screening point and one permanent ground water monitoring well.

Analytical data obtained from the ground water samples collected from the wells will assist GRI in the assessment of the Carolina Country Convenience site. This analytical information will be provided to you if requested. A map showing the approximate location of the field screening point and monitoring well has been included. A copy of the Chesterfield County tax map showing the location of your property is attached for your reference. If you have any questions or concerns, please feel free to contact the project manager at SCDHEC, **Minda Hornosky,** at 803-898-7542, or our office in Charlotte at 1-888-870-4133. GRI anticipates commencing these field activities to begin the week of **6/9/2014**. Your timely cooperation in this matter is greatly appreciated. A copy of the SCDHEC directive has been included for your records. Please note that this assessment is being paid for by the SCDHEC Superb Trust Fund. The signed agreement can be returned by fax to (704) 845-4012 or in the attached addressed and stamped envelope.

I, _____ grant Geological Resources, Inc., and their agents permission to enter my property, referenced as **Chesterfield** County tax number **030 000 000 007** to install approximately one field screening point and one permanent ground water monitoring well.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Project Manager
cc: file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
Encroachment Permit

Permit No : 170473
Permit Decision Date : 6/23/2014
Expiration Date : 6/23/2015
2:53:54 PM

Type
Permit : ENVIRONMENTAL

Location:

District	Work County	Type	Route	Aux	Begin MP	End MP
	Chesterfield, SC	S-	658	None	0.138	0.543

Contact Information

Applicant: GeologicalResourcesInc Phone: 7048454010
Contact: W. Scott Ball
Address: 3502 Hayes Road,
City: Monroe State: NC Zip: 28110

Comments

Along north and south side of Brock Road starting at the intersection of Brock Road and Highway 601, and moving approximately 300 feet to the east along Brock Road

Special Provisions:

0004 - SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.

0112 - ALL WATER METERS, AIR VALVES, ELECTRIC TRANSFORMERS, CATV CONNECTION BOXES, TELEPHONE PEDESTALS, AND/OR OTHER UTILITY/SPLICE BOXES SHALL BE PLACED AT THE RIGHT-OF-WAY LINE.

0123 - ALL WORK PERFORMED IN CONNECTION WITH THIS PERMIT SHALL CONFORM TO THE SCDOT "A POLICY FOR ACCOMODATING UTILITIES ON HIGHWAY RIGHT-OF-WAY" MOST CURRENT EDITION.

0306 - TRAFFIC CONTROL, LIGHTS, SIGNS AND FLAG-MEN WILL BE FURNISHED BY APPLICANT AND WILL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

0318 - THE APPLICANT SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAY BE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.

#170473

Application for Encroachment Permit

S.C. Department of Transportation
Form 637 (Rev 05/2013)

Form Use Instructions

Contact Information

Applicant:	Geological Resources, Inc.
Street:	3502 Hayes Road
City:	Monroe
State:	NC **Zip Code:** 28110
Phone:	(704) 845-4010 **Fax:** (704) 845-4012
Email:	wsb@geologicalresourcesinc.com
Contact:	W. Scott Ball

Project Location

Primary County: Chesterfield *SCDOT Street Finder*

County	Road Name	
Chesterfield	BROCK ROAD	Delete

Add Road

1. Type of Encroachment: ENVIRONMENTAL

Installation of monitoring wells

2. Description of Location:

Along north and south side of Brock Road starting at the intersection of Brock Road and Highway 601, and moving approximately 300 feet to the east along Brock Road

(Attach sketch indicating roadway features such as: pavement width, shoulder width, sidewalk and curb and gutter location, significant drainage structure, north arrow, right of way width, and location of the proposed encroachment with respect to the roadway centerline and the nearest intersecting road on the State system.)

Customer Agreement

your application for an encroachment permit. This permit shall become null and void unless the work contemplated herein shall have been completed prior to:

See Attached Special Provision and/or Permit Requirements

NPDES Permit
Nbr:

(Date received by res. Maint. Engr.) (SCDOT Approval) [signature] (Date) 6-27-14

Resident Maintenance Engineer — Deputy Secretary for Engineering

District Engineering Administrator — District Maint./Constr. Engineer

General Provisions

Application for Encroachment Permit
General Provisions

1. DEFINITIONS: The word "Permittee" used herein shall mean the name of the person, firm, or corporation to whom this permit is addressed, his, her, its, heirs, personal representatives, successors and assigns. The word "DEPARTMENT" shall mean the South Carolina Department of Transportation.
2. NOTICE PRIOR TO STARTING WORK: Before starting the work contemplated herein within the limits of the highway right of way, the Department's Resident Maintenance Engineer in the county in which the proposed work is located shall be notified 24 hours in advance so that he may be present while the work is under way.
3. PERMIT SUBJECT TO INSPECTION: This permit shall be kept at the site of the work at all times while said work is under way and must be shown to any representative of the Department or law enforcement officer on demand.
4. PROTECTION OF HIGHWAY TRAFFIC: The applicant shall be responsible for the protection of the highway traffic at all times during the construction, maintenance, removing or moving of the encroachment permitted herein. Detours, barricades, warning signs and flagmen, as necessary, shall be provided by and at the expense of the Permittee and shall be in accordance with the "Manual on Uniform Traffic Control Devices" (MUTCD). The work shall be planned and carried out so that there will be the least possible inconvenience to the motoring public. The Permittee agrees to observe all rules and regulations of the Department while carrying on the work contemplated herein and take all other precautions that circumstances warrant.
5. STANDARDS OF CONSTRUCTION: All work shall conform to the Department's standards of construction and shall be performed in a workman-like manner. The applicant shall make adequate provisions for maintaining the proper drainage of the highway as it may be affected by the encroachment permitted herein. All work shall be subject to the supervision and satisfaction of the Department.
6. FUTURE MOVING OF PHYSICAL APPURTENANCES: If, in the opinion of the State Highway Engineer, it should ever become necessary to move or remove the physical appurtenances, or any part thereof contemplated herein, on account of change in location of the highway, widening of the

3. **The undersigned applicant hereby requests the SCDOT to permit encroachment on the SCDOT right of way as described herein. It is expressly understood that the encroachment, if and when constructed, shall be installed in accordance with the sketch attached hereto and made a part hereof. The applicant agrees to comply with and be bound by the SCDOT's "A Policy for Accommodating Utilities on Highways Rights of way", "Standard Specifications for Highway Construction", the "General Provisions" and "Special Provisions", attached hereto or made a part hereof by reference, during the installation, operation and maintenance of said encroachment within the SCDOT's Right of Way. DISCHARGES OF STORM WATER AND NON-STORM WATER: Work within State Highway right-of-way shall be conducted in compliance with all applicable requirements of the National Pollutant Discharge Elimination System (NPDES) permit(s) issued to the Department of Transportation (Department), to govern the discharge of storm water and non-storm water from its properties. Work shall also be in compliance with all other applicable Federal, State and Local laws and regulations, and with the Department's Encroachment Permits Manual and encroachment permit. The encroachment permit will not be issued until the applicant has received an NPDES construction permit from SC Department of Health and Environmental Control.** The applicant agrees to comply with all current SCDOT Standards Specifications for Highway Construction including all Supplemental Technical Specifications. The applicant hereby further agrees, and binds his/her/its heirs, personal representatives, successors, assigns, to assume any and all liability for accidents or injuries to persons, or damage to property, including the highway, that may be caused by the construction, maintenance, use, moving or removing of the physical appurtenances contemplated herein, and the applicant agrees to indemnify and hold SCDOT harmless from and against any and all claims for personal injury and/or property damage which may be sustained by person by reason of the construction, maintenance or existence of said encroachment on the SCDOT's right of way.

Applicant's Name: W. Scott Ball (Please print or type) **Date:** 6/5/2014

Applicant's Sig: W. Scott Ball **Title:** Project Manager

For Office Use Only

For Office Use Only

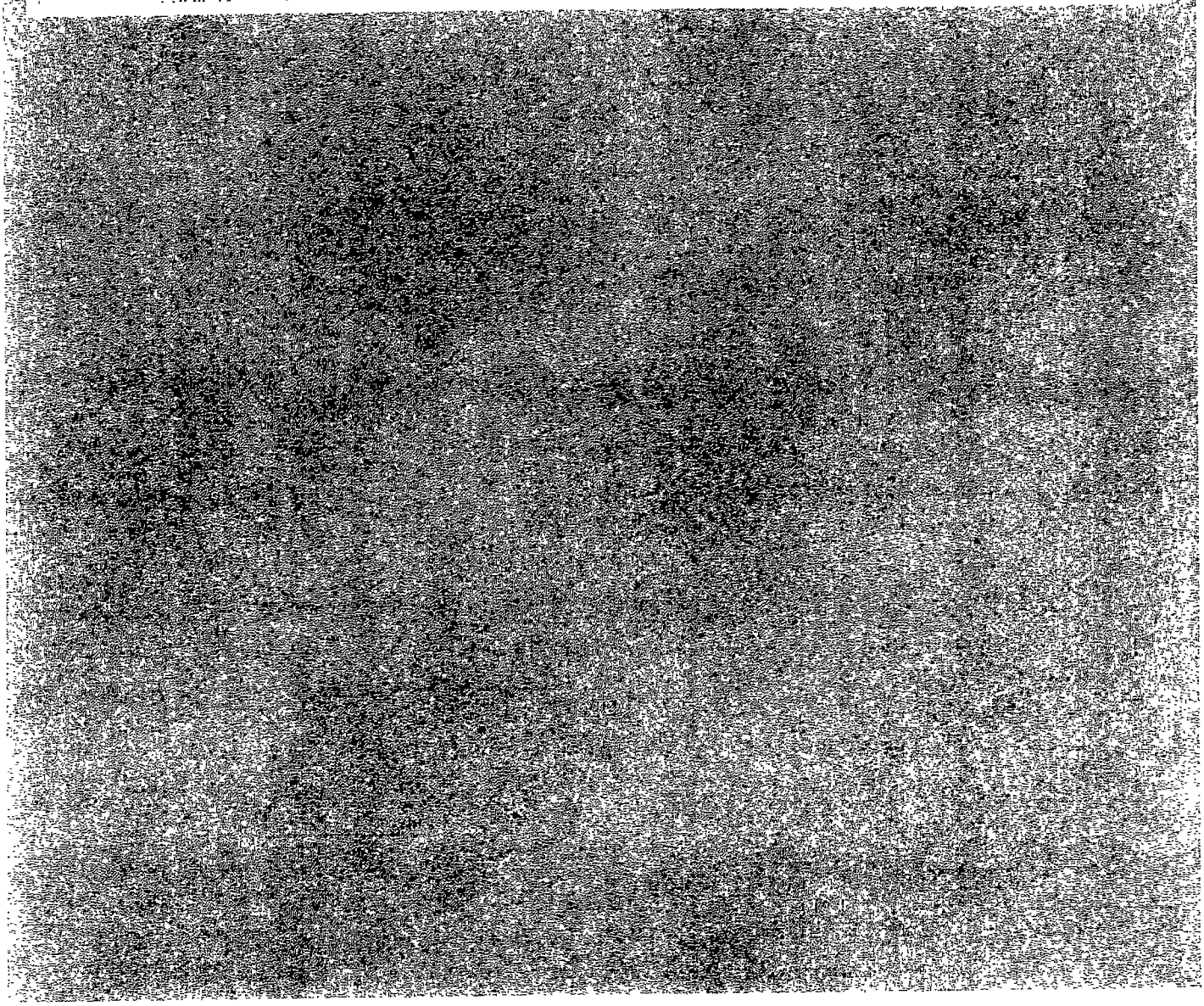
In accordance with your request and subject to all the provisions, terms, conditions, and restrictions stated in the application and the general and special provisions attached hereto, the SCDOT hereby approves

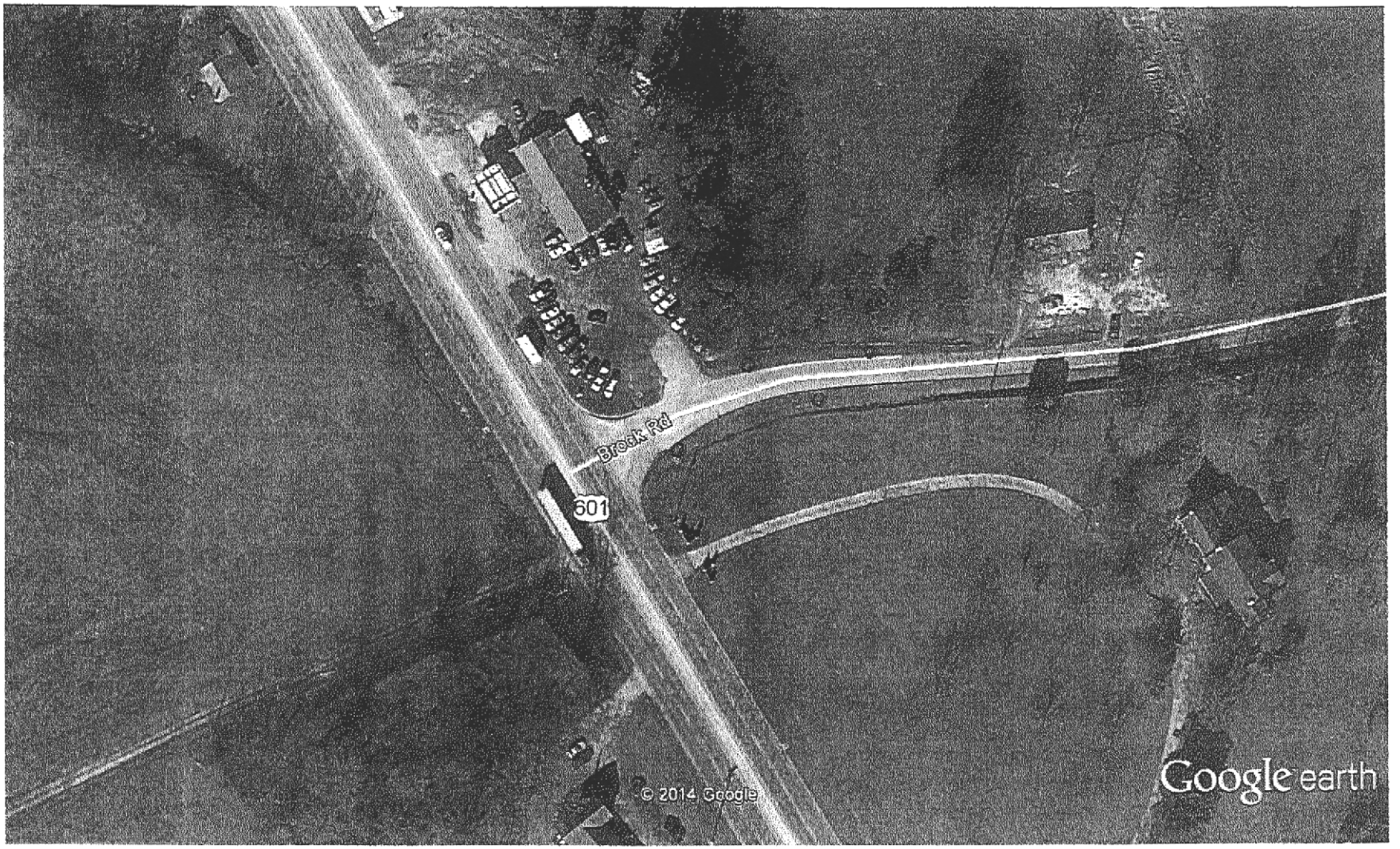
highway, or for any other sufficient reason, such moving shall be done on demand of the Department at the expense of the Permittee.

7. RESTORATION OF HIGHWAY FACILITIES UPON MOVING OR REMOVING OF PHYSICAL APPURTENANCES: If, and when, the physical appurtenances contemplated herein shall be moved or removed, either on the demand of the Department or at the option of the Permittee, the highway and facilities shall immediately be restored to their original condition at the expense of the Permittee.
8. COSTS: All work in connection with the construction, maintenance, moving or removing of the physical appurtenances contemplated herein shall be done by and at the expense of the Permittee.
9. ADDITIONAL PERMISSIONS: (a) It is distinctly understood that this permit does not in any way grant or release any rights lawfully possessed by the abutting property owners. The Permittee shall secure any such rights, as necessary, from said abutting property owners. (b) The Permittee shall be responsible for obtaining all other approvals or permits necessary for installation of the encroachment from other government entities. (c) There shall be no excavation of soil nearer than two feet to any public utility line or appurtenant facility except with the consent of the owner thereof, or except upon special permission of this Department after an opportunity to be heard is given the owner of such line or appurtenant facility.
10. ADDITIONAL WORK PERFORMANCE: (a) All crossings over the highway shall be constructed in accordance with "Specifications for Overhead Crossings of Light and Power Transmission Lines and Telegraph Lines over each other and over Highway Rights of Way in South Carolina," as approved by the Public Service Commission of South Carolina and effective as of date of this permit.
(b) All tunneling, boring, or jacking shall be done in such a way as not to disturb the highway surfacing. (c) No pavement shall be cut unless specifically authorized herein. (d) No excavation shall be nearer than three feet to the edge of pavement unless specifically authorized herein.
(e) Underground facilities will be located at minimum depths as defined in the "Utility Accommodations Manual" for the transmittant, generally as follows: 4 feet minimum for hazardous or dangerous transmittant, 3 feet minimum for other lines. The Department may approve shallower depths if adequate protection is provided. Such approval must be obtained in writing. (f) Service and other small diameter pipes shall be jacked, driven, or otherwise forced underneath the pavements on any surfaced road without disturbing the pavement. The section under the highway pavement and within a distance of three (3) feet on either side shall be continuous without joints.
11. ACCESS:
(a) Permittee is responsible for maintaining reasonable access to private driveways during construction. (b) It is expressly provided that, with respect to any limited access highway, the Permittee shall not have or gain access from the main traveled way of the highway, or the on or off ramps to such facility, except upon approval by the Department.
12. DRIVEWAYS:
(a) The existing crown of the highway shall be continued to the outside shoulder line of the highway. (b) If the driveway or approach is concrete pavement, the pavement shall be constructed at least 6 inches thick and with a minimum of class 2500 concrete. There shall be a

bituminous expansion joint, not less than 3/4 inches in thickness, placed between the highway paving and the paving of the approach for the full width of the approach.

13. BEAUTIFICATION:
    (a) All trees, plants, flowers, etc. shall be placed in accordance with the provisions specifically stipulated
    herein.
    (b) All trees, plants, flowers, etc. shall be maintained by, and at the expense of, the Permittee and the provisions of this permit shall become null and void, if and when said Permittee ceases to maintain aid trees, plants, flowers, etc.
14. AS-BUILT PLANS:
    (a) The applicant shall provide the Department with survey-quality as-built plans in accordance with the requirements set forth in the Department's "A Policy for Accommodating Utilities on Highway Rights of Way".





Google earth feet 600
meters 200

CAROLINA COUNTRY CONVENIENCE
1908 HWY 601 North
PAGE LAND, NC

● PROPOSED MONITOR WELL INSTALLATION POINTS

APPENDIX D
Subsurface Logs – Soil Borings

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	SB-1	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Direct Push Drill Rig
Completion Details	Abandoned with bentonite chips and completed with concrete		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 10' Tan silty clay
2						
4						
				5'	8,792	
6						
8						
10			SB-1 (10')	10'	13,100	Total depth 10 ft.
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	SB-2	Date Drilled	05/12/14
Sample Method	Grab	Drilling Method	Direct Push Drill Rig
Completion Details	Abandoned with bentonite chips and completed with concrete		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 10' Tan brown clay
2						
4						
				5'	19,100	
6						
8						
10			SB-2 (10')	10'	19,800	Total depth 10 ft.
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	SB-3	Date Drilled	05/12/14
Sample Method	Grab	Drilling Method	Direct Push Drill Rig
Completion Details	Abandoned with bentonite chips and completed with concrete		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth	Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0				0 - 3" Asphalt 3" - 10' Tan brown clay
2	SB-3 (2')	2'	1,736	
4		4'	1,579	
6		6'	1,220	
8		8'	1,153	
10		10'	952	Total depth 10 ft.
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	SB-4	Date Drilled	05/12/14
Sample Method	Grab	Drilling Method	Direct Push Drill Rig
Completion Details	Abandoned with bentonite chips and completed with concrete		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth	Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0				0 - 3" Asphalt 3" - 10' Tan brown clay
2		2'	281	
4		4'	774	
6		6'	1,371	
8	SB-4 (8')	8'	1,725	
10		10'	1,650	Total depth 10 ft.
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				

Geological Resources, Inc.
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Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	SB-5	Date Drilled	05/12/14
Sample Method	Grab	Drilling Method	Direct Push Drill Rig
Completion Details	Abandoned with bentonite chips and completed with concrete		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 10' Tan brown clay
2						
4				5'	72.96	
6						
8						
10			SB-5 (10')	10'	482	Total depth 10 ft.
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	SB-6	Date Drilled	05/12/14
Sample Method	Grab	Drilling Method	Direct Push Drill Rig
Completion Details	Abandoned with bentonite chips and completed with concrete		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth	Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0				0 - 3" Asphalt
				3" - 10' Tan brown silty clay, some red mottled clay
2		2'	253	
4		4'	1,139	
6		6'	1,137	
8	SB-6 (8')	8'	1,306	
10		10'	1,005	Total depth 10 ft.
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	SB-7	Date Drilled	05/12/14
Sample Method	Grab	Drilling Method	Direct Push Drill Rig
Completion Details	Abandoned with bentonite chips and completed with concrete		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 2' Gray silty sand with large gravel 2' - 10' Tan/red clay
2						
4						
				5'	1,072	
6						
8						
10			SB-7 (10')	10'	1,189	Total depth 10 ft.
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	BACKGROUND	Date Drilled	05/12/14
Sample Method	Grab	Drilling Method	Direct Push Drill Rig
Completion Details	Abandoned with bentonite chips and completed with concrete		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 10' Tan brown silty clay
2						
4						
6						
8						
10			SB-1(10')			Total depth 10 ft.
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						

APPENDIX E
Laboratory Analytical Report – Soil Samples

Southeast
ACCUTEST
LABORATORIES

Reissue #1
12/10/14

Technical Report for

GRI (Geological Resources Inc.)

Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

02261

Accutest Job Number: FA14979

Sampling Date: 05/12/14

Report to:

GRI

wsb@geologicalresourcesinc.com
carriekennedy@geologicalresourcesinc.com; jjr@geologicalresourcesinc.com; nml@geo
ATTN: Scott Ball

Total number of pages in report: **67**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177),
AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

ACCUTEST
LABORATORIES

December 10, 2014

Mr. Scott Ball
Geological Resources Inc
2301 F. Crown Point EX Dr
Charlotte, NC 28207

RE: Accutest job FA14979 Reissue

Dear Mr. Ball,

The final report for job number FA14979 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

The PAH list has been revised.

Accutest apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA14979

Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Project No: 02261

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA14979-1	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 SB-1 (10')
FA14979-2	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 SB-2 (10')
FA14979-3	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 SB-3 (2')
FA14979-4	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 SB-4 (8')
FA14979-5	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 SB-5 (10')
FA14979-6	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 SB-6 (8')
FA14979-7	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 SB-7 (10')
FA14979-8	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 BACKGROUND (10')
FA14979-9	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 DUP A
FA14979-10	05/12/14	00:00	HZ	05/14/14	SO	Soil	02261 FIELD BLANK
FA14979-11	05/12/14	00:00	HZ	05/14/14	SO	Trip Blank Soil	02261 TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA14979
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 05/12/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA14979-1	**02261 SB-1 (10')**					
Benzene		3.67	0.39	0.078	mg/kg	SW846 8260B
Toluene		8.89	0.39	0.078	mg/kg	SW846 8260B
Ethylbenzene		1.05	0.39	0.078	mg/kg	SW846 8260B
Xylene (total)		8.66	1.2	0.21	mg/kg	SW846 8260B
Methyl Tert Butyl Ether		3.99	0.39	0.078	mg/kg	SW846 8260B
Naphthalene		0.458	0.39	0.16	mg/kg	SW846 8260B
Lead		2.1	1.1		mg/kg	SW846 6010C
FA14979-2	**02261 SB-2 (10')**					
Benzene		1.15	0.31	0.061	mg/kg	SW846 8260B
Toluene		5.01	0.31	0.061	mg/kg	SW846 8260B
Ethylbenzene		1.66	0.31	0.061	mg/kg	SW846 8260B
Xylene (total)		11.9	0.92	0.16	mg/kg	SW846 8260B
Methyl Tert Butyl Ether		1.66	0.31	0.061	mg/kg	SW846 8260B
Naphthalene		0.724	0.31	0.12	mg/kg	SW846 8260B
TPH (C10-C28) [a]		38.9	5.1	3.1	mg/kg	SW846 8015C
Lead		9.0	0.91		mg/kg	SW846 6010C
FA14979-3	**02261 SB-3 (2')**					
Toluene		0.300 J	0.37	0.074	mg/kg	SW846 8260B
Ethylbenzene		0.822	0.37	0.074	mg/kg	SW846 8260B
Xylene (total)		9.18	1.1	0.20	mg/kg	SW846 8260B
Naphthalene		6.14	0.37	0.15	mg/kg	SW846 8260B
Lead		8.8	0.97		mg/kg	SW846 6010C
FA14979-4	**02261 SB-4 (8')**					
Xylene (total)		0.491 J	0.86	0.15	mg/kg	SW846 8260B
Naphthalene		0.165 J	0.29	0.11	mg/kg	SW846 8260B
Lead		17.5	0.92		mg/kg	SW846 6010C
FA14979-5	**02261 SB-5 (10')**					
Benzene		0.202 J	0.30	0.060	mg/kg	SW846 8260B
Toluene		0.801	0.30	0.060	mg/kg	SW846 8260B
Ethylbenzene		0.523	0.30	0.060	mg/kg	SW846 8260B
Xylene (total)		3.26	0.90	0.16	mg/kg	SW846 8260B
Naphthalene		0.273 J	0.30	0.12	mg/kg	SW846 8260B
Lead		12.8	0.92		mg/kg	SW846 6010C

Summary of Hits

Job Number: FA14979
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 05/12/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA14979-6	**02261 SB-6 (8')**					
Toluene		0.821	0.40	0.080	mg/kg	SW846 8260B
Ethylbenzene		2.67	0.40	0.080	mg/kg	SW846 8260B
Xylene (total)		15.5	1.2	0.21	mg/kg	SW846 8260B
Naphthalene		3.71	0.40	0.16	mg/kg	SW846 8260B
Benzo(a)anthracene		0.0173 J	0.037	0.0091	mg/kg	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0141 J	0.037	0.0091	mg/kg	SW846 8270D BY SIM
Chrysene		0.0464	0.037	0.0091	mg/kg	SW846 8270D BY SIM
Lead		15.7	1.3		mg/kg	SW846 6010C
FA14979-7	**02261 SB-7 (10')**					
Benzene		0.627	0.34	0.068	mg/kg	SW846 8260B
Toluene		7.28	0.34	0.068	mg/kg	SW846 8260B
Ethylbenzene		22.9	3.4	0.68	mg/kg	SW846 8260B
Xylene (total)		127	10	1.8	mg/kg	SW846 8260B
Naphthalene		11.2	0.34	0.14	mg/kg	SW846 8260B
Lead		15.0	1.1		mg/kg	SW846 6010C
FA14979-8	**02261 BACKGROUND (10')**					
No hits reported in this sample.						
FA14979-9	**02261 DUP A**					
Toluene		0.937	0.27	0.054	mg/kg	SW846 8260B
Ethylbenzene		1.45	0.27	0.054	mg/kg	SW846 8260B
Xylene (total)		8.24	0.81	0.14	mg/kg	SW846 8260B
Naphthalene		1.18	0.27	0.11	mg/kg	SW846 8260B
TPH (C10-C28)		11.1	4.2	2.5	mg/kg	SW846 8015C
FA14979-10	**02261 FIELD BLANK**					
Xylene (total)		0.0050 J	0.019	0.0034	mg/kg	SW846 8260B
FA14979-11	**02261 TRIP BLANK**					
No hits reported in this sample.						

(a) Petroleum hydrocarbon pattern extends beyond C28.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-1 (10')		
Lab Sample ID:	FA14979-1	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	76.9
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064421.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2							

	Initial Weight	Methanol Aliquot
Run #1	5.19 g	100 ul
Run #2		

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.67	0.39	0.078	mg/kg	
108-88-3	Toluene	8.89	0.39	0.078	mg/kg	
100-41-4	Ethylbenzene	1.05	0.39	0.078	mg/kg	
1330-20-7	Xylene (total)	8.66	1.2	0.21	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	3.99	0.39	0.078	mg/kg	
91-20-3	Naphthalene	0.458	0.39	0.16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		75-124%
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	103%		71-133%
17060-07-0	1,2-Dichloroethane-D4	95%		72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-1 (10')		
Lab Sample ID:	FA14979-1	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	76.9
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080178.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.035	0.0086	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.035	0.0086	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.035	0.0086	mg/kg	
218-01-9	Chrysene	ND	0.035	0.0086	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.035	0.0086	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 SB-1 (10')		
Lab Sample ID:	FA14979-1	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
		Percent Solids:	76.9
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1	1.1	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11605
(2) Prep QC Batch: MP27263

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-2 (10')		
Lab Sample ID:	FA14979-2	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	82.3
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064422.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2							

	Initial Weight	Methanol Aliquot
Run #1	6.01 g	100 ul
Run #2		

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.15	0.31	0.061	mg/kg	
108-88-3	Toluene	5.01	0.31	0.061	mg/kg	
100-41-4	Ethylbenzene	1.66	0.31	0.061	mg/kg	
1330-20-7	Xylene (total)	11.9	0.92	0.16	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	1.66	0.31	0.061	mg/kg	
91-20-3	Naphthalene	0.724	0.31	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		75-124%
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	102%		71-133%
17060-07-0	1,2-Dichloroethane-D4	95%		72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-2 (10')		
Lab Sample ID:	FA14979-2	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	82.3
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080179.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.032	0.0080	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.032	0.0080	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.032	0.0080	mg/kg	
218-01-9	Chrysene	ND	0.032	0.0080	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.032	0.0080	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 SB-2 (10')		
Lab Sample ID:	FA14979-2	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	82.3
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003482.D	1	05/21/14	SJL	05/20/14	OP51679	GJJ130
Run #2							

	Initial Weight	Final Volume
Run #1	29.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) [a]	38.9	5.1	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		56-122%

(a) Petroleum hydrocarbon pattern extends beyond C28.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-2 (10')		
Lab Sample ID:	FA14979-2	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
		Percent Solids:	82.3
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	9.0	0.91	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11605
(2) Prep QC Batch: MP27263

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-3 (2')		
Lab Sample ID:	FA14979-3	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	77.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064423.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2	F0064424.D	1	05/14/14	AD	n/a	n/a	VF2123

	Initial Weight	Methanol Aliquot
Run #1	5.52 g	100 ul
Run #2	5.52 g	10.0 ul

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.37	0.074	mg/kg	
108-88-3	Toluene	0.300	0.37	0.074	mg/kg	J
100-41-4	Ethylbenzene	0.822	0.37	0.074	mg/kg	
1330-20-7	Xylene (total)	9.18	1.1	0.20	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.37	0.074	mg/kg	
91-20-3	Naphthalene	6.14	0.37	0.15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%	88%	75-124%
2037-26-5	Toluene-D8	94%	90%	75-126%
460-00-4	4-Bromofluorobenzene	97%	104%	71-133%
17060-07-0	1,2-Dichloroethane-D4	94%	89%	72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-3 (2')		
Lab Sample ID:	FA14979-3	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	77.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080180.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.034	0.0085	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.034	0.0085	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.034	0.0085	mg/kg	
218-01-9	Chrysene	ND	0.034	0.0085	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.034	0.0085	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		40-105%
321-60-8	2-Fluorobiphenyl	75%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-3 (2')		
Lab Sample ID:	FA14979-3	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
		Percent Solids:	77.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	8.8	0.97	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11605
(2) Prep QC Batch: MP27263

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-4 (8')		
Lab Sample ID:	FA14979-4	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	89.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064425.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2							

	Initial Weight	Methanol Aliquot
Run #1	5.48 g	100 ul
Run #2		

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.29	0.057	mg/kg	
108-88-3	Toluene	ND	0.29	0.057	mg/kg	
100-41-4	Ethylbenzene	ND	0.29	0.057	mg/kg	
1330-20-7	Xylene (total)	0.491	0.86	0.15	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.29	0.057	mg/kg	
91-20-3	Naphthalene	0.165	0.29	0.11	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		75-124%
2037-26-5	Toluene-D8	96%		75-126%
460-00-4	4-Bromofluorobenzene	106%		71-133%
17060-07-0	1,2-Dichloroethane-D4	88%		72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-4 (8')		
Lab Sample ID:	FA14979-4	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	89.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080181.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.030	0.0075	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.030	0.0075	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.030	0.0075	mg/kg	
218-01-9	Chrysene	ND	0.030	0.0075	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.030	0.0075	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-4 (8')		
Lab Sample ID:	FA14979-4	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
		Percent Solids:	89.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	17.5	0.92	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11605
(2) Prep QC Batch: MP27263

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-5 (10')		
Lab Sample ID:	FA14979-5	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	84.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064426.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2							

	Initial Weight	Methanol Aliquot
Run #1	5.88 g	100 ul
Run #2		

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.202	0.30	0.060	mg/kg	J
108-88-3	Toluene	0.801	0.30	0.060	mg/kg	
100-41-4	Ethylbenzene	0.523	0.30	0.060	mg/kg	
1330-20-7	Xylene (total)	3.26	0.90	0.16	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.30	0.060	mg/kg	
91-20-3	Naphthalene	0.273	0.30	0.12	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		75-124%
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	104%		71-133%
17060-07-0	1,2-Dichloroethane-D4	86%		72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-5 (10')		
Lab Sample ID:	FA14979-5	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	84.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080182.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.031	0.0079	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.031	0.0079	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.031	0.0079	mg/kg	
218-01-9	Chrysene	ND	0.031	0.0079	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.031	0.0079	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	94%		45-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 SB-5 (10')		
Lab Sample ID:	FA14979-5	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
		Percent Solids:	84.1
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	12.8	0.92	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11605
(2) Prep QC Batch: MP27263

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-6 (8')		
Lab Sample ID:	FA14979-6	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	72.7
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064427.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2							

	Initial Weight	Methanol Aliquot
Run #1	5.64 g	100 ul
Run #2		

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.40	0.080	mg/kg	
108-88-3	Toluene	0.821	0.40	0.080	mg/kg	
100-41-4	Ethylbenzene	2.67	0.40	0.080	mg/kg	
1330-20-7	Xylene (total)	15.5	1.2	0.21	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.40	0.080	mg/kg	
91-20-3	Naphthalene	3.71	0.40	0.16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		75-124%
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	97%		71-133%
17060-07-0	1,2-Dichloroethane-D4	90%		72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-6 (8')		
Lab Sample ID:	FA14979-6	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	72.7
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080183.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2	W080210.D	10	05/19/14	NAF	05/15/14	OP51624	SW3746

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2	30.1 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	0.0173	0.037	0.0091	mg/kg	J
205-99-2	Benzo(b)fluoranthene	0.0141	0.037	0.0091	mg/kg	J
207-08-9	Benzo(k)fluoranthene	ND	0.037	0.0091	mg/kg	
218-01-9	Chrysene	0.0464	0.037	0.0091	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.037	0.0091	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	125% [a]	134% [a]	40-105%
321-60-8	2-Fluorobiphenyl	81%	85%	43-107%
1718-51-0	Terphenyl-d14	78%	89%	45-119%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-6 (8')		
Lab Sample ID:	FA14979-6	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
		Percent Solids:	72.7
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	15.7	1.3	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11605
(2) Prep QC Batch: MP27263

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-7 (10')		
Lab Sample ID:	FA14979-7	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	77.4
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064428.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2	F0064442.D	1	05/15/14	AD	n/a	n/a	VF2124

	Initial Weight	Methanol Aliquot
Run #1	6.02 g	100 ul
Run #2	6.02 g	10.0 ul

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.627	0.34	0.068	mg/kg	
108-88-3	Toluene	7.28	0.34	0.068	mg/kg	
100-41-4	Ethylbenzene	22.9 [a]	3.4	0.68	mg/kg	
1330-20-7	Xylene (total)	127 [a]	10	1.8	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.34	0.068	mg/kg	
91-20-3	Naphthalene	11.2	0.34	0.14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%	92%	75-124%
2037-26-5	Toluene-D8	97%	94%	75-126%
460-00-4	4-Bromofluorobenzene	97%	103%	71-133%
17060-07-0	1,2-Dichloroethane-D4	98%	94%	72-135%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 SB-7 (10')		
Lab Sample ID:	FA14979-7	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	77.4
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080184.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.034	0.0085	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.034	0.0085	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.034	0.0085	mg/kg	
218-01-9	Chrysene	ND	0.034	0.0085	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.034	0.0085	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	96%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 SB-7 (10')		
Lab Sample ID:	FA14979-7	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
		Percent Solids:	77.4
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	15.0	1.1	mg/kg	1	05/16/14	05/16/14	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA11605
(2) Prep QC Batch: MP27263

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 BACKGROUND (10')		
Lab Sample ID:	FA14979-8	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
		Percent Solids:	77.8
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.8		%	1	05/14/14 17:19	KC	SM19 2540G
Total Organic Carbon	< 1300	1300	mg/kg	1	05/17/14 16:19	FN	SW846 9060A M

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA14979-9	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	97.9
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064429.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2							

	Initial Weight	Methanol Aliquot
Run #1	4.81 g	100 ul
Run #2		

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.27	0.054	mg/kg	
108-88-3	Toluene	0.937	0.27	0.054	mg/kg	
100-41-4	Ethylbenzene	1.45	0.27	0.054	mg/kg	
1330-20-7	Xylene (total)	8.24	0.81	0.14	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.27	0.054	mg/kg	
91-20-3	Naphthalene	1.18	0.27	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		75-124%
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	105%		71-133%
17060-07-0	1,2-Dichloroethane-D4	85%		72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA14979-9	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	97.9
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080185.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.027	0.0068	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.027	0.0068	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.027	0.0068	mg/kg	
218-01-9	Chrysene	ND	0.027	0.0068	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.027	0.0068	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA14979-9	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	97.9
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ003483.D	1	05/21/14	SJL	05/20/14	OP51679	GJJ130
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	11.1	4.2	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		56-122%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FIELD BLANK		
Lab Sample ID:	FA14979-10	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	79.3
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064445.D	1	05/15/14	AD	n/a	n/a	VF2124
Run #2							

	Initial Weight
Run #1	4.89 g
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0064	0.0013	mg/kg	
108-88-3	Toluene	ND	0.0064	0.0013	mg/kg	
100-41-4	Ethylbenzene	ND	0.0064	0.0013	mg/kg	
1330-20-7	Xylene (total)	0.0050	0.019	0.0034	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0064	0.0013	mg/kg	
91-20-3	Naphthalene	ND	0.0064	0.0026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		75-124%
2037-26-5	Toluene-D8	92%		75-126%
460-00-4	4-Bromofluorobenzene	110%		71-133%
17060-07-0	1,2-Dichloroethane-D4	97%		72-135%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FIELD BLANK		
Lab Sample ID:	FA14979-10	**Date Sampled:**	05/12/14
Matrix:	SO - Soil	**Date Received:**	05/14/14
Method:	SW846 8270D BY SIM SW846 3550C	**Percent Solids:**	79.3
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W080186.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.033	0.0083	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.033	0.0083	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.033	0.0083	mg/kg	
218-01-9	Chrysene	ND	0.033	0.0083	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.033	0.0083	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TRIP BLANK		
Lab Sample ID:	FA14979-11	**Date Sampled:**	05/12/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	05/14/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0064431.D	1	05/14/14	AD	n/a	n/a	VF2123
Run #2 [a]	F0064441.D	1	05/15/14	AD	n/a	n/a	VF2124

	Initial Weight
Run #1	5.00 g
Run #2	5.00 g

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0050	0.0010	mg/kg	
108-88-3	Toluene	ND	0.0050	0.0010	mg/kg	
100-41-4	Ethylbenzene	ND	0.0050	0.0010	mg/kg	
1330-20-7	Xylene (total)	ND	0.015	0.0027	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0050	0.0010	mg/kg	
91-20-3	Naphthalene	ND	0.0050	0.0020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	89%	75-124%
2037-26-5	Toluene-D8	95%	92%	75-126%
460-00-4	4-Bromofluorobenzene	105%	102%	71-133%
17060-07-0	1,2-Dichloroethane-D4	95%	98%	72-135%

(a) Confirmation run.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 • FAX. 407-425-0707
www.accutest.com

Accutest JOB # FA14979 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: GR
Address: 3502 Hayes Road
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball E-mail: sball@
Phone#: 704 845 4010
Sampler(s) Name(s) (Printed): Hunter Kahrmann - Todd

Project Information

Project Name: Carolina Country Convenience
Street: 1908 Hwy 601 N
City: Pageland State: SC
Project #: #02261
Fax #:
Client Purchase Order #:

Analytical Information

Total Organic Carbon
TPH-DRO by 8015B
BTEX, MTBE, Naph by 8260
PAHs by 8270
Lead by 6010

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	TOC	TPH-DRO	BTEX, MTBE, Naph	PAHs	Lead	LAB USE ONLY
1	02261 SB-1 (10')	5/12		HKZ	SO	4			X	X	X	
2	02261 SB-2 (10')	5/12		HKZ	SO	5		X	X	X	X	
3	02261 SB-3 (2')	5/12		HKZ	SO	4			X	X	X	
4	02261 SB-4 (8')	5/12		HKZ	SO	4			X	X	X	
5	02261 SB-5 (10')	5/12		HKZ	SO	4			X	X	X	
6	02261 SB-6 (8')	5/12		HKZ	SO	4			X	X	X	
7	02261 SB-7 (10')	5/12		HKZ	SO	4			X	X	X	
8	02261 Background (10')	5/12		HKZ	SO	1	X					
9	02261 Dup A	5/12		HKZ	SO	4		X	X	X	X	
10	02261 Field Blank	5/12		HKZ	SO	4			X	X	X	
11	02261 Trip Blank	5/12		HKZ	SO	3			X	X		

TURNAROUND TIME (Business Days)

Approved By / Rush Code

- 10 Days Standard
- 7 Day RUSH
- 5 Day RUSH
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY
- OTHER

Emergency or Rush T/A Data Available VIA Email or Labfax

Data Deliverable Information

- COMMERCIAL "A" (RESULTS ONLY)
- COMMERCIAL "B" (RESULTS ACCUTEST
- REDT1 (EPA LEVEL 3) 2828 C QUEEN CITY DR
- FULT1 (EPA LEVEL 4) CLT NC 28208
- EDD'S

Comments / Remarks

SCDHEC UST Management
Do not run SB-1 (10') for TPH-DRO
Do not run Samples Dup A or field blank for Lead.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	5/13 8:15	2	3	5/13 16:30	4 FX
Relinquished by: 5 FX	Date Time: 5-14-12	Received By 6 J. Ernst (ALS)	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.4

FA14979: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA14979 CLIENT: GRI PROJECT: 02261

DATE/TIME RECEIVED: 5-14-14 10:30 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8043 9729 7051

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.1
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.1

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: 5-14-14 REVIEWER SIGNATURE/DATE: 05-14-14

RS 04/14 receipt confirmation 041514.xls

4.1 4

FA14979: Chain of Custody
Page 2 of 3

ORIGIN ID:PNVA

UNITED STATES US

SHIP DATE: 13MAY14
ACTWGT: 43.1 LB
CAD: /POS1601
DIMS: 24x14x15 IN

BILL SENDER

TO

ACCUTEST LABORATORIES SE, INC
4405 VINELAND RD
STE C15
ORLANDO FL 32811
(407) 425-6700

FedEx Express

TRK# 0662 8043 9729 7051

WED - 14 MAY AA
STANDARD OVERNIGHT

XH TIXA

32811
FL-US MCO

FA14979: Chain of Custody
Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2123-MB	F0064417.D	1	05/14/14	AD	n/a	n/a	VF2123

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7, FA14979-9, FA14979-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	75-124%
2037-26-5	Toluene-D8	94%	75-126%
460-00-4	4-Bromofluorobenzene	106%	71-133%
17060-07-0	1,2-Dichloroethane-D4	96%	72-135%

Method Blank Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2124-MB	F0064439.D	1	05/15/14	AD	n/a	n/a	VF2124

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14979-7, FA14979-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	75-124%
2037-26-5	Toluene-D8	95%	75-126%
460-00-4	4-Bromofluorobenzene	108%	71-133%
17060-07-0	1,2-Dichloroethane-D4	89%	72-135%

Blank Spike Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2123-BS	F0064416.D	1	05/14/14	AD	n/a	n/a	VF2123

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7, FA14979-9, FA14979-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	48.3	97	76-126
100-41-4	Ethylbenzene	50	49.2	98	77-123
1634-04-4	Methyl Tert Butyl Ether	50	52.2	104	77-120
91-20-3	Naphthalene	50	48.7	97	79-129
108-88-3	Toluene	50	49.6	99	76-124
1330-20-7	Xylene (total)	150	152	101	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	75-124%
2037-26-5	Toluene-D8	92%	75-126%
460-00-4	4-Bromofluorobenzene	101%	71-133%
17060-07-0	1,2-Dichloroethane-D4	91%	72-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2124-BS	F0064438.D	1	05/15/14	AD	n/a	n/a	VF2124

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14979-7, FA14979-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	52.7	105	76-126
100-41-4	Ethylbenzene	50	49.7	99	77-123
1634-04-4	Methyl Tert Butyl Ether	50	55.8	112	77-120
91-20-3	Naphthalene	50	52.8	106	79-129
108-88-3	Toluene	50	50.4	101	76-124
1330-20-7	Xylene (total)	150	157	105	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	75-124%
2037-26-5	Toluene-D8	90%	75-126%
460-00-4	4-Bromofluorobenzene	100%	71-133%
17060-07-0	1,2-Dichloroethane-D4	87%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14963-1MS	F0064419.D	1	05/14/14	AD	n/a	n/a	VF2123
FA14963-1MSD	F0064420.D	1	05/14/14	AD	n/a	n/a	VF2123
FA14963-1	F0064418.D	1	05/14/14	AD	n/a	n/a	VF2123

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7, FA14979-9, FA14979-11

CAS No.	Compound	FA14963-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		62.5	43.8	70*	62.3	47.2	76	7	76-126/26
100-41-4	Ethylbenzene	ND		62.5	34.4	55*	62.3	41.4	66*	18	77-123/31
1634-04-4	Methyl Tert Butyl Ether	ND		62.5	52.0	83	62.3	54.5	87	5	77-120/24
91-20-3	Naphthalene	ND		62.5	20.1	32*	62.3	28.8	46*	36*	79-129/33
108-88-3	Toluene	ND		62.5	39.3	63*	62.3	45.0	72*	14	76-124/30
1330-20-7	Xylene (total)	ND		188	105	56*	187	130	70*	21	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	FA14963-1	Limits
1868-53-7	Dibromofluoromethane	94%	93%	93%	75-124%
2037-26-5	Toluene-D8	93%	97%	99%	75-126%
460-00-4	4-Bromofluorobenzene	101%	99%	113%	71-133%
17060-07-0	1,2-Dichloroethane-D4	98%	96%	95%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14979-7MS	F0064443.D	1	05/15/14	AD	n/a	n/a	VF2124
FA14979-7MSD	F0064444.D	1	05/15/14	AD	n/a	n/a	VF2124
FA14979-7	F0064442.D	1	05/15/14	AD	n/a	n/a	VF2124

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA14979-7, FA14979-10

CAS No.	Compound	FA14979-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		34100	33400	98	34100	33100	97	1	76-126/26
100-41-4	Ethylbenzene	22900		34100	51900	85	34100	51200	83	1	77-123/31
1634-04-4	Methyl Tert Butyl Ether	ND		34100	35000	103	34100	37100	109	6	77-120/24
91-20-3	Naphthalene	13000		34100	46000	97	34100	48200	103	5	79-129/33
108-88-3	Toluene	7330		34100	39100	93	34100	39000	93	0	76-124/30
1330-20-7	Xylene (total)	127000		102000	216000	87	102000	210000	81	3	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	FA14979-7	Limits
1868-53-7	Dibromofluoromethane	91%	93%	92%	75-124%
2037-26-5	Toluene-D8	96%	93%	94%	75-126%
460-00-4	4-Bromofluorobenzene	99%	100%	103%	71-133%
17060-07-0	1,2-Dichloroethane-D4	86%	83%	94%	72-135%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORY

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51624-MB	W080174.D	1	05/16/14	MG	05/15/14	OP51624	SW3745

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7, FA14979-9, FA14979-10

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	6.7	1.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	6.7	1.7	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	6.7	1.7	ug/kg	
218-01-9	Chrysene	ND	6.7	1.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	6.7	1.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	75%	40-105%
321-60-8	2-Fluorobiphenyl	79%	43-107%
1718-51-0	Terphenyl-d14	99%	45-119%

Blank Spike Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51624-BS	W080173.D	1	05/16/14	MG	05/15/14	OP51624	SW3745

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7, FA14979-9, FA14979-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
56-55-3	Benzo(a)anthracene	167	153	92	60-106
205-99-2	Benzo(b)fluoranthene	167	148	89	59-112
207-08-9	Benzo(k)fluoranthene	167	157	94	58-109
218-01-9	Chrysene	167	155	93	62-104
53-70-3	Dibenzo(a,h)anthracene	167	144	86	55-110

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	81%	40-105%
321-60-8	2-Fluorobiphenyl	83%	43-107%
1718-51-0	Terphenyl-d14	99%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51624-MS	W080187.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
OP51624-MSD	W080188.D	4	05/16/14	MG	05/15/14	OP51624	SW3745
FA14950-1	W080175.D	4	05/16/14	MG	05/15/14	OP51624	SW3745

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7, FA14979-9, FA14979-10

CAS No.	Compound	FA14950-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
56-55-3	Benzo(a)anthracene	29	U	177	155	88	177	155	88	0	60-106/30
205-99-2	Benzo(b)fluoranthene	29	U	177	159	90	177	145	82	9	59-112/33
207-08-9	Benzo(k)fluoranthene	29	U	177	139	79	177	147	83	6	58-109/33
218-01-9	Chrysene	29	U	177	157	89	177	161	91	3	62-104/30
53-70-3	Dibenzo(a,h)anthracene	29	U	177	119	67	177	126	71	6	55-110/31

CAS No.	Surrogate Recoveries	MS	MSD	FA14950-1	Limits
4165-60-0	Nitrobenzene-d5	69%	70%	66%	40-105%
321-60-8	2-Fluorobiphenyl	81%	79%	72%	43-107%
1718-51-0	Terphenyl-d14	90%	94%	87%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51679-MB	JJ003477.D	1	05/21/14	SJL	05/20/14	OP51679	GJJ130

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA14979-2, FA14979-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	4.2	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	73%	56-122%

Blank Spike Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51679-BS	JJ003476.D	1	05/21/14	SJL	05/20/14	OP51679	GJJ130

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA14979-2, FA14979-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	25.4	76	62-116

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	83%	56-122%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA14979
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51679-MS	JJ003479.D	1	05/21/14	SJL	05/20/14	OP51679	GJJ130
OP51679-MSD	JJ003480.D	1	05/21/14	SJL	05/20/14	OP51679	GJJ130
FA15004-3	JJ003478.D	1	05/21/14	SJL	05/20/14	OP51679	GJJ130

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA14979-2, FA14979-9

CAS No.	Compound	FA15004-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	47.9		42.7	66.1	43*	42.1	70.1	53*	6	62-116/35

CAS No.	Surrogate Recoveries	MS	MSD	FA15004-3	Limits
84-15-1	o-Terphenyl	73%	74%	78%	56-122%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/16/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1.6		
Antimony	1.0	.1	.1		
Arsenic	0.50	.1	.1		
Barium	10	.05	.05		
Beryllium	0.25	.025	.025		
Cadmium	0.20	.025	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.05		
Iron	15	.85	1.3		
Lead	1.0	.055	.08	0.020	<1.0
Magnesium	250	2.5	2.5		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.025	.03		
Nickel	2.0	.025	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.15		
Silver	0.50	.033	.033		
Sodium	500	25	25		
Strontium	0.50	.02	.025		
Thallium	0.50	.075	.075		
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15		

Associated samples MP27263: FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/16/14 05/16/14

Metal	FA14967-1 Original	DUP	RPD	QC Limits	FA14967-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron									
Lead	13.0	11.6	11.4	0-20	13.0	33.4	27.1	75.4N(a)	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP27263: FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/16/14

Metal	FA14967-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron						
Lead	13.0	32.0	25	75.9N(a)	4.3	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP27263: FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/16/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	26.5	25	106.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP27263: FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/16/14

Metal	FA14967-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron				
Lead	264	272	2.9	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP27263: FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP27263
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/16/14

Metal	Sample ml	Final ml	FA14967-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	264.3	259.014	305.1	0.2	2.5	50	92.2	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP27263: FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Carbon	GP24022/GN61487	1000	0.0	mg/kg	20000	20400	102.0	88-114%

Associated Samples:
Batch GP24022: FA14979-8
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Percent	GN61448	FA14954-1	%	94.1	94.2	0.1	0-5%

Associated Samples:
Batch GN61448: FA14979-1, FA14979-2, FA14979-3, FA14979-4, FA14979-5, FA14979-6, FA14979-7, FA14979-8, FA14979-9, FA14979-10
(*) Outside of QC limits

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MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP24022/GN61487	FA14979-8	mg/kg	0.00	25700	28300	110.1	88-114%

Associated Samples:
Batch GP24022: FA14979-8
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA14979
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Total Organic Carbon	GP24022/GN61487	FA14979-8	mg/kg	0.00	25700	27800	1.8	36%

Associated Samples:
Batch GP24022: FA14979-8
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

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APPENDIX F
QAPP Appendix B

Appendix B: Contractor Addendum

Geological Resources, Inc.
S.C. Rehabilitation Contractor #74
Carolina Country Convenience
GRI Proposal No. 13-646
QAPP Revision 0
December 18, 2013

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
Carolina Country Convenience – UST Permit No. 02261

1908 Highway 601 North, Pageland, Chesterfield County, South Carolina

Prepared by: W. Scott Ball

Geological Resources, Inc.
SC Site Rehabilitation Contractor No. 74

Date: 12/18/2013

Geological Resources, Inc.

Approvals

Minda Homosky SC DHEC Project Manager	Signature	Date 2/19/14
John M. Brown, PG - GRI Contractor QA Manager	Signature	Date 12/17/13
Scott Ball - GRI Site Rehabilitation Contractor	Signature	Date 12/17/13
Harry Behzadi Laboratory Director	Signature	Date 12/17/13

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A3 Distribution List

Name	Title/Role from UST Master QAPP	License/Number/Exp. date	Organization/Address	Telephone Number	Fax Number	Email Address
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Hanna Kahrman n-Zadak	Contractor Field Geologist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	hkz@geologicalresourcesinc.com
Joanna Alley	Contractor Field Engineer	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	jra@geologicalresourcesinc.com
Holden McClenn ey	Contractor Field Geologist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	hwm@geologicalresourcesinc.com
Nicole Long	Contractor Field Scientist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-845-4010	704-845-4012	nml@geologicalresourcesinc.com
William Regenth al	Contractor Field Geologist	NA	GRI - 2301 Crown Point Executive Drive, Charlotte, NC 28227	704-815-0653	252-321-6094	wlr@geologicalresourcesinc.com
Michael Ransier	Well Services/Drill er	Drilling License/S.C. 1152A/6-30-2014	REDI – 1 Piney Point Whispering Pines, NC 28327	910-690-6688	910-690-6690	mransier@earthlink.net
Harry Behzadi	Laboratory Director	Certification/ SC96038001	Accutest, 4405 Vineland Road, Suite C-15, Orlando, FL 32811	407-425-6700	427-425-0707	harryb@accutest.com

Table 1A Addendum Distribution and Project Organization List

It is understood that certification records must be produced if requested by SCDHEC.

A4 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 release for the site was reported on October 11, 2012. An IGWA was completed at the site in October 2013. One monitoring well (MW-1) was installed as part of the IGWA activities. Concentrations of BTEX constituents, MTBE, naphthalene, 1, 2-DCA and EDB were reported in the ground water sample collected from MW-1. There is currently a UST system in operation at the site. The site contains an active petroleum retail facility/convenience store. Land use in the area is generally agricultural and residential. Municipal water is available to the subject site and all immediately surrounding properties. Two water supply wells were identified within a 500-foot radius of the site during the IGWA activities. A release of petroleum products has also been reported for the Eddie's Pitt Stop site (#18871), which is located across Highway 601 to the west/northwest of the site. Seven monitoring wells (MW-10, MW-20, MW-20D, MW-21,

MW-21D, MW-22 and MW-22D) associated with the Eddie's Pitt Stop release are located on the subject site in the general area of MW-1

The release is currently being assessed to monitor contaminant concentrations in the ground water.

Please answer the following: Does this project fall under UST or Brownfields area?

UST

A5 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).***

   SOW will include the installation of two soil borings in the UST area, five soil borings in the areas occupied by product lines and dispensers and one back ground boring. **Approximate soil boring locations are shown on the attached Figure 2.** Boring depths will range from 10 feet to 25 feet or to the water table. Soil samples will be collected from each of the borings and submitted for laboratory analyses in accordance with the guidelines set forth in the QAPP. Installation of as many as 15 field screening points to delineate the horizontal and vertical extent of the ground water contaminant plume. The depths of the screening points will be from 30 feet to 56 feet. Ground water samples collected from the screening points will be scanned with a PID for the presence of volatile organic compounds. Based on the field screening results, as many as an additional 10 Type III monitoring wells and three telescoping well will be installed. Samples will be collected for grain size analyses during the installation of the one telescoping well and one Type III well. The proposed locations of the permanent monitoring wells will be presented to the SCDHEC for approval prior to installing the wells. The depths of the new Type III wells will be approximately 35 feet. The new telescoping wells will be installed to total depths of approximately 60 feet. Drilling augers/hammers will be decontaminated using a pressure washer and alconox cleanser between each boring. All soil cuttings, drilling mud, purge water, decontamination water and development water will containerized and transported to a licensed disposal facility for manifested disposal. A ground water sample will be collected from each permanent monitoring well and submitted for laboratory analyses in accordance with the guidelines set forth in the QAPP. Top-of-casing elevations will be surveyed for each newly installed monitoring well and all existing wells by a licensed SC Professional Surveyor. Slug tests will be conducted on two of the Type III monitoring wells and one of the telescoping wells. **No work will be started at the site until access agreements from adjoining property owners and/or SCDOT encroachment agreements are obtained.**

2. ***The work will begin within*** 10 business days ***after the necessary right-to-enter agreements are obtained and sampling should be complete by*** 10 days after well installations are complete.

3. ***Are there are time or resource constraints?*** Yes ***Include those factors that may interfere with the tentative schedule.*** Inclement weather, personnel availability, drilling services availability, equipment failures, could possibly bring changes such as delay of final report submittal, to the tentative schedule.

A6 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.

Carolina Country Convenience, 1908 Highway 601 North, Pageland, Chesterfield County, SC (see attached Figures 1 & 2)

A7 Certification

The Following Laboratory(ies) will be used for this Project:

Commercial Lab(s)

Full Name of the Laboratory Accutest
Name of Lab Director Harry Behzadi
SC DHEC Certification Number 96038001
Parameters this Lab will analyze for this project:
Ground Water:
BTEX, MTBE, naphthalene, 1,2-DCA and 8 Oxygenates by Method 8260
EDB by Method 8011
Lead by Method 6010

Soil:
BTEX, MTBE and naphthalene by Method 8260
PAHs by Method 8270
Lead by Method 6010

TPH by Method 5030
TOC by the Walkley-Black Method
Grain Size – ASTM D422 – **Analyses performed by Accutest**

Full Name of the Laboratory_____
Name of Lab Director_____
SC DHEC Certification Number_____
Parameters this Lab will analyze for this project:
Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

A8 Documents and Records

Personnel will receive the most current version of the QAPP Addendum via:
(Check all that apply)

__X__ US Mail ____ Courier __X__ Hand delivered

Other (please specify):____e-mail_____

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Field Notes	GRI	Hardcopy and electric	20 Years	Yes – Computer and GRI library
Chain of Custody	Accutest	Hardcopy and electric - EDD	10 Years	Yes - Electronic
Chain of Custody	GRI	Hardcopy and electric	20 Years	Yes – Computer and GRI library
Report	GRI	Hardcopy and electric	20 Years	Yes - Computer and GRI library
Lab Data	Accutest-Orlando	Hardcopy and electric - EDD	10 Years	Yes - Electronic

Table 2A Record Identification, Storage, and Disposal

Section B Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
QAPP Preparation	12/16/2013	12/18/13	In Progress
QAPP Approval	1 business day after submittal to DHEC	30 calender days from date received by DHEC	Assume 30 day turnaround
MW and Soil Boring Installation	10 days from receipt of access agreements	1 – 2 weeks after receipt of access agreements	
Ground Water Sampling	10 days from completion of monitoring well installations	11 days from completion of monitoring well installations	
Report Preparation	15 days from receipt of lab report	3 – 4 weeks from receipt of lab report	

Table 3A 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 — 11 (SB- SB-8, 1 duplicate, field blank & 1trip blank) **as shown on the attached Figure 2.**

Ground Water from monitoring wells — 21 (MW-1 and new wells MW-2 through MW11 and TW-1 through TW-3) and (MW-10, MW-20, MW-20D, MW-21, MW-21D, MW-22 and MW-22D from the Eddie's Pitt Stop release as shown on attached Figure 2)

From Drinking/Irrigation water wells — PW-1 & PW-2

From surface water features — _____

Duplicate samples — 2

Field Blanks ____1_____

Trip Blanks ____1_____

Total number of Water samples ____27_____

The samples will be (check as many as apply): ____Homogenized __X__ Grab ___Split

All samples will be "Grab"

If homogenized or split are checked please indicate how will it be done and the equipment needed.

If decontamination procedures differ from Appendix H, please provide details.

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), or electricity to run sampling equipment.

REDI with auger rig/probe for field screening point installation
REDI with auger rig for monitoring well installation
HERR for disposal of purge water and soil cuttings

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
Drill Rig	Repair by REDI	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak
YSI 556 Meter	Repair @ Enviro Equipment	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak
Hanna turbidity meter	Repair @ Enviro Equipment	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak

Water level meter	Repair @ Enviro Equipment	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak
Interface probe	Repair @ Enviro Equipment	Field Book/Notes	Michael Senglaub, Hanna Kahrmann-Zadak

Table 4A 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?*** After each sample is collected, it is placed in an ice filled cooler that is secured with the sampling personnel's company vehicle. Upon completion of sampling activities, sampling personnel sends the secured cooler and chain of custody via Fed-Ex to the laboratory. Samples are generally sent out via Fed-Ex at the end of each day's sampling event. Or, if possible, the samples/cooler are taken directly to the laboratory's service center where possession of the samples is taken by the lab. Samples requiring analyses that have short hold times are always sent out the same day the samples were collected. Even if short hold times are not a concern, collected samples are never kept in the sampler's/contractors possession for more than 24 hours.

2. ***If sample preservation procedures differ from the UST Programmatic QAPP, please provide details.***

3. ***If chain of custody procedures differ from the UST Programmatic QAPP, please provide details.***

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:***

Parameter	Method Referenced	Comments
BTEX, MTBE and Naphthalene (soil)	8260B	

PAHs (soil)	8270	
Lead (soil)	6010	
TPH (soil), GRO/DRO	8015D	
TOC (soil)	9060A	
BTEX, MTBE, 1,2 – DCA, naphthalene, (water)	8260B	
8 Oxygenates	8260B-oxy	
Lead (water)	6010	
EDB (water)	8011	
pH	---	
Dissolved Oxygen	---	
Conductivity	---	
temperature	---	
turbidity	---	

Table 5A 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.**

2. 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).

B5 Quality Control Requirements:

All QC will follow the requirements laid out in Section B5 of the UST Programmatic QAPP. If procedures for QC differ from the UST.

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. Not the availability and location of spare parts.

Instrument	Serial Number	Type of Maintenance	Frequency	Person responsible
YSI 556	GRI1	Calibration	Prior to each	Michael Senglaub, Hanna Kahrmann-

			sampling event	Zadak
Hanna Turbidity Meter	GRI1	Calibration	Prior to each sampling event	Michael Senglaub, Hanna Kahrmann-Zadak
Water Level Indicator	GRI1	Replace batteries	As needed	Michael Senglaub, Hanna Kahrmann-Zadak
Interface Probe	GRI1	Replace Batteries	As needed	Michael Senglaub, Hanna Kahrmann-Zadak
Agilent 5973 of 5975, OI analytical purge and trap system	Multiple units	Leak check, gas pressure check, detector check, septa replacement	As warranted by passing instrument QC and batch QC	Bench Analyst
Agilent 6890, Agilent 7683 Autosampler	Multiple units	Leak check, gas pressure check, detector check, septa replacement	As warranted by passing instrument QC and batch QC	Bench Analyst

Table 6A Instrument and Equipment Maintenance

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	Serial Number	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA
YSI 556	GRI1	Manufacturer's Directions	Prior to the sampling event	Within limits established by manufacturer	Send to manufacturer or Enviro-Equipment	Michael Senglaub, Hanna

Instrument	Serial Number	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA
						Kahrmann-Zadak
Hanna Turbidity Meter	GRI1	Manufacturer's Directions	Prior to the sampling event	Within limits established by manufacturer	Send to manufacturer or Enviro-Equipment	Michael Senglaub, Hanna Kahrmann-Zadak
Agilent 5973 or 5975 equipped with OI analytical purge and trap system	NA	Calibrate with series of standards as described in SW-846 8260B, internal standard calibration procedure	Initial calibration performed as necessary and verified daily (CCV)	As described in SW-846 8260B method	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Bench Analyst
Agilent 6890, Agilent 7683 Autosampler	NA	Calibrate with series of standards as described in 8011 internal standard calibration procedure	Initial calibration performed as necessary and verified daily (CCV)	As described in 8011 method	In case of daily calibration (CCV) failure, investigate cause of failure, perform maintenance if necessary and recalibrate	Calibrate with series of standards as described in SW-846 8260B, internal standard calibration procedure

Table 7A 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. If procedures for storage, handling or transport of supplies/consumables differ from the UST Programmatic QAPP, please provide details.

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.,
3. Provide its relevance to the project.
4. Indicate the justification criteria for use of these data sources and/or models.

Data Source	Used for	Relevance	Justification for use in this project	Comments
Computer database and GRI library	Historical ground water elevation and quality data		For showing contaminant concentration and ground water flow trends	
SCDHEC FOI	Historical ground water elevation and quality data		For showing contaminant concentration and ground water flow trends	

Table 8A Non-Direct Measurements

5. Identify key resources/support facilities needed.

B10 Data Management

1. Describe the data management scheme from field to final use and storage.
   GRI orders lab kit from Accutest
   Accutest ships kit to GRI office (if done directly from Orlando facility) or courier delivers kit to GRI office from service center
   Field personnel collects lab samples and returns lab samples and field notes to office.
   Accutest courier picks up samples and signs COC. (Alternately - GRI ships coolers to Accutest Southeast)
   Samples are analyzed as per the COC and SOPs.
   Lab report is emailed to Project manager. Data is checked if usable is populated into tables for report deliverable.
   Data is stored at lab and in GRI office (electronic and hard copies).

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?

   Laboratory - CoC are scanned into PDF upon log-in, subsequent changes in tests ordered (if any) are made via formal request. Computer records are incrementally backed up through LAN every 20 minutes and fully backed up once a week.

   Field Staff – Field notes are recorded in bound, All-Weather Field Books (Model No. 540F) with black or blue ink. Original field notes are reviewed by a senior geologist and project manager upon return of field staff to the GRI office then scanned into a PDF file and saved to working files stored at GRI.

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.

   Every piece of analytical data is reviewed once by bench analyst upon initial data processing and undergoes secondary review by section supervisor or senior analyst prior to release to the clients. Third level review performed by QA staff at 10-15% of data.

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).

   Raw analytical data is incrementally backed up; full automatic backup occurs once a week and tapes are produced in duplicates. One copy stored off-site. Bench run logs, CoC and other hand-written records are scanned into PDF files; sample reports are converted into PDF files and stored on local servers. Logbooks, Certificates of Analysis, etc. are secured on-site in lockable storage.

   As with field notes, GRI reports are converted into PDF files and stored on the GRI server. Hard copies of reports are stored in the GRI library.

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.* **The samples will be collected by the on-site supervisor. The on-site supervisor will periodically be audited/observed by a senior GRI personnel such at Terry D. Kennedy or John M. Brown. Auditors will check to see if the on-site supervisor is properly calibrating instrumentation in**

the field, determine if correct readings are being collected when purging wells, ensure the sample kits are properly labeled and preserved, ensure CoCs are completed in accordance with the QAPP and ensure that all waste materials (purge and decon water) are properly containerized for disposal. *Will this person have the authority to stop work if severe problems are seen?* **Yes**

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?* **1. GRI's Contract QA Manager (John M. Brown. P.G.) will review the QC Data Summary associated with each Accutest Report to determine that all QA/QC requirements of the laboratory's SOP are met. 2. Accutest Laboratories Southeast participates in the semiannual analyses of PT samples in order to maintain primary state certification and for the benefit of other states' certification program. Accutest Laboratories Inc. maintains corporate purchasing contract with ERA, Waters Company, and results are on file with DHEC, lab certification group** *When or how often are these done?* **1. Upon receipt of each laboratory report. 2. Semi-annually** *Who will the results be given to and who has the ability to stop work if problems are severe?* **1. GRI's Contract QA Manager, Mr. John M. Brown. 2. Accutest Lab Director.**

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).

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
November 1, 2013

Facility Name: Carolina Country Convenience

GRI Proposal 13-646

UST Permit #: 02261 **Cost Agreement #:** _____

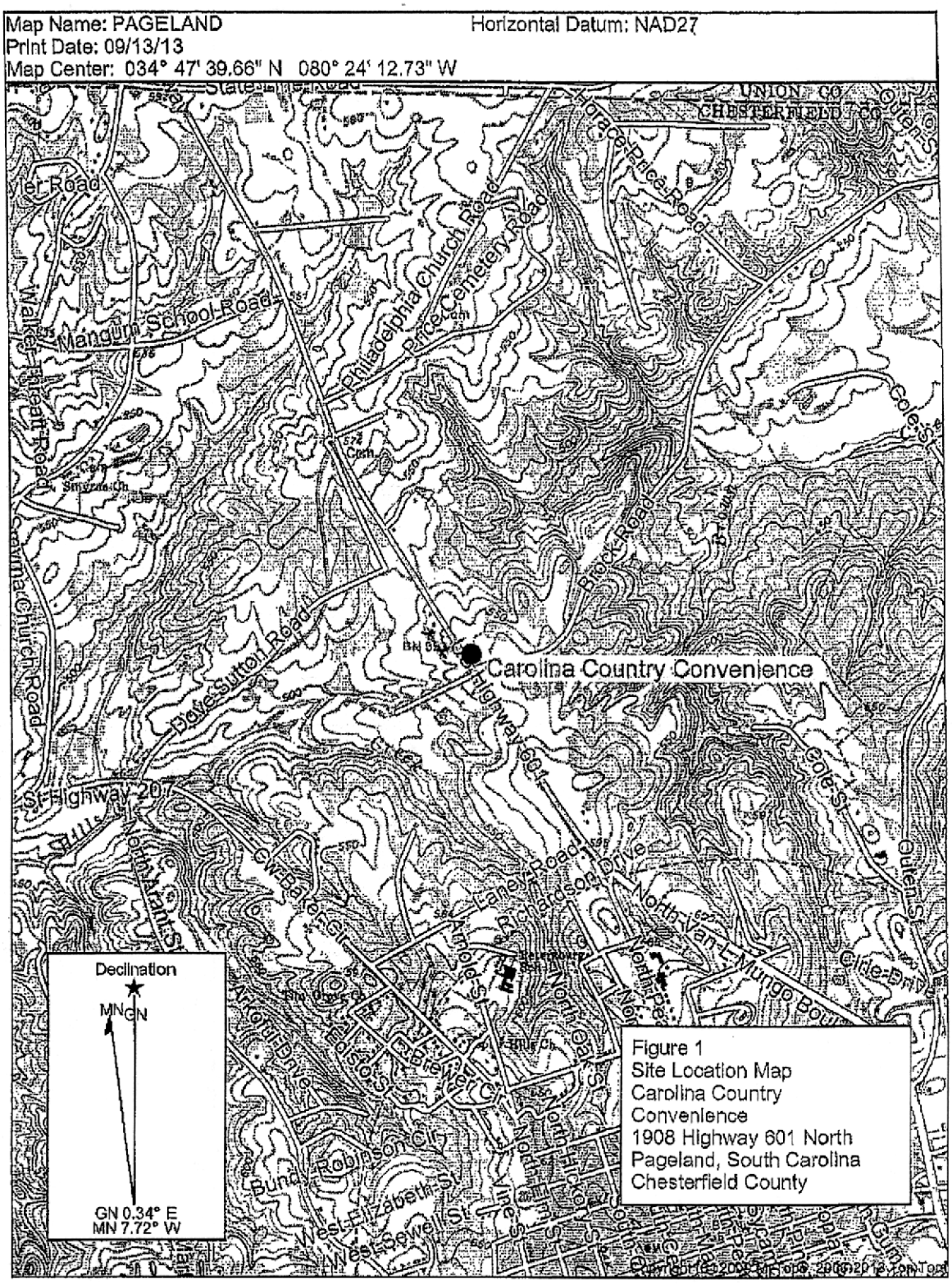
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan		each	$150.00	$0.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Apper	1	each	$250.00	$250.00
2. A1. **Receptor Survey** *		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey	1	each	$1,040.00	$1,040.00
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	2	each	$1,020.00	$2,040.00
B1. Personnel	5	each	$423.00	$2,115.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
A1. Standard		per foot	$7.40	$0.00
C1. Fractured Rock	560	per foot	$20.20	$11,312.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less	560	per foot	$3.10	$1,736.00
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	180	per foot	$31.80	$5,724.00
D1. Rock Drilling	350	per foot	$26.80	$9,380.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
H1. Recovery Well (4" diameter)		per foot	$30.00	$0.00
I1. 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	21	per well/recept	$60.00	$1,260.00
B1. Air or Vapors		per recepto	$12.00	$0.00
C1. Water Supply	2	per well/recept	$22.00	$44.00
D1. Groundwater No Purge or Duplicate	2	per well/recept	$28.00	$56.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00

H1. Field Blank	1	each	$24.60	$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	27	per sample	$122.00		$3,294.00
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	26	per sample	$16.00		$416.00
F1. EDB by EPA 8011	26	per sample	$45.20		$1,175.20
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.	11	per sample	$64.00		$704.00
R1. PAH's	10	per sample	$64.04		$640.40
S1. 8 RCRA Metals (total lead)		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)	1	per sample	$40.00		$40.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer	2	per sample	$104.00		$208.00
X1. Total Organic Carbon	1	per sample	$30.60		$30.60
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*	3	per test	$191.00		$573.00
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	1	each	$100.00		$100.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. Disposal (gallons or tons)*					
AA. Wastewater	450	gallon	$0.56		$252.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal	3.5	ton	$60.00		$210.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. Miscellaneous (attach receipts)					
Total Lead Method 6010		each	$0.00		$0.00
for 7 soil samples as required in QAPP	7	each	$25.00		$175.00
		each	$0.00		$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			$0.00
21. IGWA (Use DHEC 3666 form)		standard			$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)				
A1. 8-hour Event*		each	$1,375.00	$0.00
A2. 24-hour Event*		each	$3,515.00	$0.00
A3. 48-hour Event*		each	$6,265.00	$0.00
A4. 96-hour Event*		each	$12,567.50	$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50	$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50	$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00	$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00	$0.00
D. Site Reconnaissance		each	$203.25	$0.00
E1. Additional Hook-ups		each	$25.75	$0.00
F. Effluent Disposal		gallon	$0.30	$0.00
G. AFVR Mobilization/Demobilization		each	$391.50	$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:				
A1. New GAC System Installation*		each	$1,900.00	$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00	$0.00
C1. Filter replacement/removal*		each	$350.00	$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00	$0.00
E1. GAC System housing*		each	$250.00	$0.00
F. In-line particulate filter		each	$150.00	$0.00
G1. Additional piping & fittings		foot	$1.50	$0.00
25. Well Repair				
A1. Additional Copies of the Report Delivered		each	$50.00	$0.00
B1. Repair 2x2 MW pad*		each	$50.00	$0.00
C1. Repair 4x4 MW pad*		each	$88.00	$0.00
D1. Repair well vault*		each	$118.00	$0.00
F1. Replace well cover bolts		each	$2.60	$0.00
G. Replace locking well cap & lock		each	$15.00	$0.00
H1. Replace/Repair stick-up*		each	$134.00	$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00	$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00	$0.00
K1. Replace missing/illegible well ID plate		each	$12.00	$0.00
Report Prep & Project Management	10%	percent	$42,799.80	$4,279.98
TOTAL				$47,079.78

*The appropriate mobilization cost can be added to complete these tasks, as necessary


Map Name: PAGELAND
Horizontal Datum: NAD27
Print Date: 09/13/13
Map Center: 034° 47' 39.66" N 080° 24' 12.73" W
Carolina Country Convenience
Declination
GN
MN
GN 0.34° E
MN 7.72° W
Figure 1
Site Location Map
Carolina Country
Convenience
1908 Highway 601 North
Pageland, South Carolina
Chesterfield County
SCALE 1:24000
0 1000 2000 3000 4000 5000 6000
FEET
Carolina Country Convenience
* WATER SUPPLY WELLS

LEGEND

- TYPE II MONITORING WELL
- DISPENSER
- PROPOSED SOIL BORING LOCATIONS

N

Geological Resources, Inc.

0 10 20 40

(IN FEET)
1 inch = 20 ft

SITE MAP

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — Incident # 02261

Date:	09/17/13	Drawn by:	ACB	Figure:	2

Accutest Laboratories Southeast

ACCUTEST LABORATORIES

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # | PAGE____ OF____

Accutest Quote # | SKIFF#

Client / Reporting Information	Project Information	Analytical Information	Matrix Codes
Company Name	Project Name:		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe
Address	Street		
City State Zip	City State		
Project Contact E-mail	Project #		
Phone#	Fax #		
Sampler(s) Name(s) (Printed)	Client Purchase Order #		

Accutest Sample #	Field ID / Point of Collection	COLLECTION: DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

ACCUTEST
2829-C QUEEN CITY DR
CLT NC 28203

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1		2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

APPENDIX G
Subsurface Logs – Field Screening Points

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-1	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3"- 10' Tan brown silty clay
2						
4						
6						
8						
10						10' - 18' Red clay
12						
14						
16						
18						18' - 30' Red weathered mudstone
20						
22						
24						
26						
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-2	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 16' Tan/red silty clay
4						
8						
12						
16						16' - 26' Tan/red weathered mudstone
20						
24						26' - 50' Tan weathered mudstone
28						
32						
36						
40						
44						
48						Total depth 50 ft.
52						
56						
60						
64						
68						
72						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-3	Date Drilled	05/13/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 16' Tan/red clay, some mottling
2						
4						
6						
8						
10						
12						
14						
16						16' - 30' Tan weathered mudstone
18						
20						
22						
24						
26						
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-4	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 17' Tan/red clay
2						
4						
6						
8						
10						
12						
14						
16						
18						17' - 32' Tan weathered mudstone
20						
22						
24						
26						
28						
30						
32						Total depth 32 ft.
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-5	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 5' Tan/red mottled clay
2						
4						5' - 17' Tan/red clay
6						
8						
10						
12						
14						
16						17' - 29' Tan weathered mudstone
18						
20						
22						
24						
26						
28						Total depth 29 ft.
30						
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-6	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 5' Tan/red/white mottled clay
2						
4						5' - 15' Tan/red clay
6						
8						
10						
12						
14						15' - 22' Tan weathered mudstone
16						
18						
20						
22						Total depth 22 ft.
24						
26						
28						
30						
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-7	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 4' Tan/red/white mottled clay
2						
4						4' - 15' Tan/red clay
6						
8						
10						
12						
14						
16						15' - 30' Red/tan weathered mudstone
18						
20						
22						
24						
26						
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-8	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 15' Red/tan clay
2						
4						
6						
8						
10						
12						
14						15' - 30' Red/tan weathered mudstone
16						
18						
20						
22						
24						
26						
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-9	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 5' Tan clay with gravel
2						
4						5' - 16' Tan clay
6						
8						
10						
12						
14						
16						16' - 30' Tan weathered mudstone
18						
20						
22						
24						
26						
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-10	Date Drilled	5/12/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Hanna Kahrmann-Zadak

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3" Asphalt 3" - 5' Tan/red mottled clay
2						
4						5' - 18' Tan clay
6						
8						
10						
12						
14						
16						
18						18' - 30' Tan weathered mudstone
20						
22						
24						
26						
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-11	Date Drilled	10/27/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 3.5' Red silty clay
2						
4						3.5-30' Brown to tan mudstone (soft)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26					0.0	Water bearing zone 25-30'
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-12	Date Drilled	10/27/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 1' Brown silty clay 1-30' Red/tan clayey silt turning to soft mudstone
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24					1.4	Water bearing zone 25-30'
26						
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-13	Date Drilled	10/27/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0 - 5' Red clayey silt
2						
4						5-30' Tan/red mudstone (soft)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24					0.0	Water bearing zone 25-30'
26						
28						
30						Total depth 30 ft.
32						
34						
36						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-14	Date Drilled	10/27/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-2' Brown silt
2						2-12' Red silt
4						
6						
8						
10						
12						12-35' Brown mudstone
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34					NA	35-42' Tan Silt, boring dry after 72 hours
36						
38						
40						
42						Total depth 42 ft
44						
46						
48						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-15	Date Drilled	10/27/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red/tan silt
2						
4						5-47' Brown/red mudstone (soft)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40					0.0	Water bearing zone 40-47'
42						
44						
46						Total depth 47 ft
48						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-16	Date Drilled	10/27/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red silt, some clay
2						
4						5-47' Tan/red mudstone (soft)
6						Drill rate slows at 42'
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40					8.8	Water bearing zone 40-47'
42						
44						
46						
48						Total depth 47 ft

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-17	Date Drilled	10/28/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red/tan silt
2						
4						5-40' Tan/reddish brown mudstone (soft)
6						Drill rate slows at 30'
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40					NA	Water bearing zone 35-40'? Auger refusal at 40', boring dry
42						Total depth 40 ft
44						
46						
48						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-18	Date Drilled	10/28/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth	Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0				0-5' Tan silt w/some clay
2				
4				5-60' Tan/brown mudstone
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50			2,235	Water bearing zone 50-60'
52				
54				
56				
58				
				Total depth 60 ft

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-19	Date Drilled	10/28/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red/tan silt, some clay
2						
4						5-37' Tan mudstone (softened)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30					16.4	Water bearing zone 30-37'
32						
34						
36						
38						Total Depth 37'
40						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-20	Date Drilled	10/28/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red/tan silt, some clay
2						
4						5-42' Tan mudstone (soft)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36					0 0	Water bearing zone 35-42'
38						
40						
42						
44						Total depth 42 ft
46						
48						
50						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-21	Date Drilled	10/28/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red/tan silt w/some clay
2						
4						5-42' Tan/red turning to brown mudstone
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36					0.0	Water bearing zone 35-42'
38						
40						
42						Total depth 42 ft
44						
46						
50						

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3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-22	Date Drilled	10/28/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red/tan silt
2						
4						5-42' Tan mudstone (soft)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34					0 0	Water bearing zone 35-42'
36						
38						
40						
42						Total depth 42 ft
44						
46						
48						
50						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-23	Date Drilled	10/28/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red/tan silt
2						
4						5-42' Tan mudstone (soft)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34					0 0	Water bearing zone 35-42'
36						
38						
40						
42						Total depth 42 ft
44						
46						
48						
50						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-24	Date Drilled	10/29/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Red/tan silt
2						
4						
6						5-60' Tan mudstone
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						
50					0 0	Water bearing zone 50-60'
52						
54						
56						
58						
60						Total depth 60 ft

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, South Carolina		
Boring Number	TMW-25	Date Drilled	10/29/14
Sample Method	Grab	Drilling Method	Air Rotary
Completion Details	Temporary Monitoring Well, Abandoned with bentonite		
Driller	Mike Ransier	Log By	Angela Roach

Depth	Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0				0-5' Tan/red silt
2				
4				5-60' Tan mudstone
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50			0 0	Water bearing zone 50-60'
52				
54				
56				
58				
60				Total depth 60 ft

APPENDIX H
Well Construction Records/Subsurface Logs

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-2	Date Drilled	11/5/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 37-42', 2" PVC riser 0-37'		
Driller	REDI - Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Tan to red SILT
2						
4						5-42' Red/tan mudstone (weathered)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						Well set @ 42'
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-3	Date Drilled	11/5/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 37-42', 2" PVC riser 0-37'		
Driller	REDI - Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Tan to red SILT
2						
4						
6						5-42' Red/tan mudstone (weathered)
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						Well set @ 42'
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-4	Date Drilled	11/5/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 37-42', 2" PVC riser 0-37'		
Driller	REDI - Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Tan to red SILT
2						
4						
6						5-42' Red/tan mudstone (weathered)
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						Well set @ 42'
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-5	Date Drilled	11/5/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 37-42', 2" PVC riser 0-37'		
Driller	REDI - Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Tan to red SILT
2						
4						5-42' Red/tan mudstone (weathered)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						Well set @ 42'
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-6	Date Drilled	11/5/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 30-35', 2" PVC riser 0-30'		
Driller	REDI - Mike Ransier	Log By	Angela Roach

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Tan to red SILT
2						
4						5-35' Red/tan mudstone (weathered)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						Well set @ 35'
36						
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-7	Date Drilled	11/6/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 25-30', 2" PVC riser 0-25', 5' protective stickup		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-30' Red/tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						Well set @ 30'
32						
34						
36						
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-8	Date Drilled	11/6/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 25-30', 2" PVC riser 0-25', 5' protective stickup		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-30' Red/tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						Well set @ 30'
32						
34						
36						
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-9	Date Drilled	11/7/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 25-30', 2" PVC riser 0-25', 5' protective stickup		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-5' Tan to red SILT
2						
4						5-30' Red/tan mudstone (weathered)
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						Well set @ 30'
32						
34						
36						
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-10	Date Drilled	11/7/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 30-35', 2" PVC riser 0-35'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-35' Tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						Well set @ 35'
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-11	Date Drilled	11/7/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 30-35', 2" PVC riser 0-30'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-18' Tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						18-35' Red/tan mudstone (weathered)
20						
22						
24						
26						
28						
30						
32						
34						
36						Well set @ 35'
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-12	Date Drilled	11/7/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 30-35', 2" PVC riser 0-35'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-35' Red/tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						Well set @ 35'
36						
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-13	Date Drilled	11/10/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 30-35', 2" PVC riser 0-35'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-35' Red/tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						Well set @ 35'
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	MW-14	Date Drilled	11/10/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	2" PVC SCH 40 (0.010) Slotted Screen 30-35', 2" PVC riser 0-35'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-35' Red/tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						Well set @ 35'
36						
38						
40						
42						
44						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	TW-1	Date Drilled	11/06/14 & 11/11/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	5" PVC outer casing 0-35'. 2" inner casing 0-51', 2" PVC SCH 40 (0.010) Slotted Screen 51-56'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-56' Red/tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						
50						
52						
54						
56						Well set @ 56'
58						
60						
62						
64						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	TW-2	Date Drilled	11/06/14 & 11/11/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	5" PVC outer casing 0-35'. 2" inner casing 0-51', 2" PVC SCH 40 (0.010) Slotted Screen 51-56'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth	Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0				0-5' Red/tan silt
2				
4				5-35' Red/tan mudstone (weathered)
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				35-56' Red/tan mudstone
36				
38				
40				
42				
44				
46				
48				
50				
52				
54				
56				Well set @ 56'
58				
60				
62				
64				

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	TW-3	Date Drilled	11/06/14 & 11/11/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	6" PVC outer casing 0-35'. 2" inner casing 0-51', 2" PVC SCH 40 (0.010) Slotted Screen 51-56'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-56' Red/tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						
50						
52						
54						
56						Well set @ 56'
58						
60						
62						
64						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	TW-4	Date Drilled	11/011/14 & 11/12/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	5" PVC outer casing 0-40'. 2" inner casing 0-56, 2" PVC SCH 40 (0.010) Slotted Screen 56-61'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-40' Red/tan mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						40-61' Tan mudstone (weathered)
42						
44						
46						
48						
50						
52						
54						
56						
58						
60						Well set @ 61'
62						
64						

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SUBSURFACE LOG

Project	Carolina Country Convenience		
Address	1908 Highway 601 North, Pageland, Chesterfield County, SC		
Boring Number	TW-5	Date Drilled	11/011/14 & 11/12/14
Sample Method	NA	Drilling Method	Air Rotary
Completion Details	5" PVC outer casing 0-40'. 2" inner casing 0-56, 2" PVC SCH 40 (0.010) Slotted Screen 56-61'		
Driller	REDI - Mike Ransier	Log By	Corey Buchanan

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0-34' Red mudstone (weathered)
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						34-40' Red/tan mudstone (weathered)
36						
38						
40						40-61' Tan mudstone (weathered)
42						
44						
46						
48						
50						
52						
54						
56						
58						
60						Well set @ 61'
62						
64						

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: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.37 Longitude: 80 24.11

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
argillite/mudstone	42	42
Incident # 02261		
MW-2		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 42 ft. Date Started: 11/5/14 Date Completed: 11/5/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 37 ft. depth
_____ in. to _____ ft. depth
Height: Above .25 /Below Surface
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 37 ft. and 42 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 35 ft. to 42 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 33 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Mike Ransier Well Driller Date: 11/19/14

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.37 Longitude: 80 24.11

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
argillite/mudstone	42	42
Incident # 02261		
MW-3		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 42 ft. Date Started: 11/5/14 Date Completed: 11/5/14

10. CASING: ☑ Threaded ☐ Welded
Diam. _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 37 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface .25 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type. PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 37 ft. and 42 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 35 ft. to 42 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 33 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Mike Ransier Well Driller Date: 11/19/14

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.37 Longitude: 80 24.11

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
argillite/mudstone	42	42
Incident # 02261		
MW-4		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 42 ft. Date Started: 11/5/14 Date Completed: 11/5/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 37 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface .25 ft.
Weight Sch 40 lb /ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 37 ft. and 42 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 35 ft. to 42 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 33 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address. (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No. 910-690-6688 Fax No..

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

Signed: Mike Ransier (Well Driller) Date: 11/19/14

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

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

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.37 Longitude: 80 24.11

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
argillite/mudstone	42	42
Incident # 02261		
MW-5		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 42 ft. Date Started: 11/5/14 Date Completed: 11/5/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 37 ft depth
_____ in. to _____ ft. depth
Height: Above /Below Surface .25 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 37 ft. and 42 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface
NA 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 35 ft. to 42 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth From 0 ft. to 33 ft

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No :

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

Signed: Mike Ransier Well Driller Date: 11/19/14

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

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

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

D H E C — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.40 Longitude: 80 24.13

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
argillite/mudstone	35	35
Incident # 02261		
MW-6		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 35 ft. Date Started: 11/5/14 Date Completed: 11/5/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 30 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface .25 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 30 ft. and 35 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

13. PUMPING LEVEL Below Land Surface.
NA 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 28 ft. to 35 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 26 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed. Mike Ransier (Well Driller) Date. 11/19/14

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

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

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address 1908 Hwy 601 N
City Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.17 Longitude: 80 24.13

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
argillite/mudstone	30	30
Incident # 02261		
MW-7		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 30 ft. Date Started. 11/6/14 Date Completed 11/6/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 25 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface +3 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 25 ft. and 30 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 20 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 23 ft. to 30 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 21 ft.

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

18. PUMP: Date installed. NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No: 910-690-6688 Fax No:

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

Signed: Mike Ransier Well Driller Date: 11/19/14

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

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

D H E C — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work. Home.

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.17 Longitude: 80 24.13

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
argillite/mudstone	30	30
Incident # 02261		
MW-8		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 30 ft. Date Started. 11/6/14 Date Completed: 11/6/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 25 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface +3 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 25 ft. and 30 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 20 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 23 ft to 30 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 21 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Michael Ransier (Well Driller) Date: 11/19/14

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

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.17 Longitude: 80 24.13

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
argillite/mudstone	30	30
Incident # 02261		
MW-9		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 30 ft. Date Started: 11/7/14 Date Completed: 11/7/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 25 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface +3 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type. PVC Diam.: 2"
Slot/Gauge: .010 Length. 5
Set Between: 25 ft. and 30 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 20 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 23 ft to 30 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 21 ft

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

18. PUMP: Date Installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) Level: A B C D (circle one)
1 Piney Pt
Whispering Pines, NC 28327
Telephone No.: 910-690-6688 Fax No :

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

Signed: Mike Ransier Date 11/19/14
Well Driller

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

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work. Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.38 Longitude: 80 24.12

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
argillite/mudstone	35	35
Incident # 02261		
MW-10		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 35 ft. Date Started: 11/7/14 Date Completed: 11/7/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type. ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 30 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface .25 ft.
Weight Sch 40 lb./ft
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam 2"
Slot/Gauge: .010 Length: 5
Set Between: 30 ft. and 35 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

13. PUMPING LEVEL Below Land Surface.
NA 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 28 ft. to 35 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 26 ft

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Mike Ransier (Well Driller) Date: 11/19/14

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

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

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.38 Longitude: 80 24.12

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
argillite/mudstone	35	35
Incident # 02261		
MW-11		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 35 ft
Date Started: 11/7/14
Date Completed: 11/7/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 30 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below
Surface .25 ft
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 30 ft. and 35 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

13. PUMPING LEVEL Below Land Surface.
NA 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 28 ft. to 35 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 26 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level. A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Mike Ransier Well Driller Date: 11/19/14

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

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.38 Longitude: 80 24.12

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
argillite/mudstone	35	35
Incident # 02261		
MW-12		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 35 ft. Date Started: 11/7/14 Date Completed: 11/7/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 30 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface .25 ft.
Weight Sch 40 lb /ft
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between. 30 ft. and 35 ft
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

13. PUMPING LEVEL Below Land Surface.
NA 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 28 ft to 35 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft to 26 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier **CERT. NO.:** 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No. 910-690-6688 Fax No.:

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

Signed: Mike Ransier Well Driller Date. 11/19/14

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

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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: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.38 Longitude: 80 24.12

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
argillite/mudstone	35	35
Incident # 02261		
MW-13		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 35 ft. Date Started: 11/10/14 Date Completed: 11/10/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 30 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface .25 ft
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 30 ft. and 35 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

13. PUMPING LEVEL Below Land Surface.
NA 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 28 ft. to 35 ft
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 26 ft

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

18. PUMP: Date installed: NA 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: Michael Ransier **CERT. NO.:** 1152A
Address: (Print) 1 Piney Pt Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Mike Ransier Date: 11/19/14
Well Driller

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.38 Longitude: 80 24.12

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
argillite/mudstone	35	35
Incident # 02261		
MW-14		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 35 ft. Date Started 11/10/14 Date Completed: 11/16/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 30 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below Surface .25 ft
Weight Sch 40 lb /ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 30 ft. and 35 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

13. PUMPING LEVEL Below Land Surface.
NA 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 28 ft. to 35 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 26 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address (Print) Level: A B C D (circle one)
1 Piney Pt
Whispering Pines, NC 28327
Telephone No. 910-690-6688 Fax No.:

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

Signed: Michael Ransier Date: 11/19/14
Well Driller

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.17 Longitude: 80 24.13

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
argillite/mudstone	56	56
Incident # 02261		
TW-1		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 56 ft. Date Started: 11/6/14 Date Completed: 11/11/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 51 ft. depth
5 in. to 35 ft. depth
Height: Above +3 /Below Surface ft
Weight Sch 40 lb./ft
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam: 2"
Slot/Gauge: .010 Length: 5
Set Between: 51 ft. and 56 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 36 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 49 ft to 56 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 46 ft

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level. A B C D (circle one)
Telephone No.: 910-690-6688 Fax No:

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

Signed. Mike Ransier (Well Driller) Date: 11/19/14

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

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address. 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.17 Longitude: 80 24.13

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
argillite/mudstone	56	56
Incident # 02261		
TW-2		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 56 ft Date Started: 11/6/14 Date Completed: 11/11/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 51 ft. depth
5 in. to 35 ft. depth
Height: Above /Below Surface +3 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 51 ft. and 56 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 36 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 49 ft. to 56 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 46 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No..

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

Signed: Mike Ransier Well Driller Date: 11/19/14

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

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

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work. Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.17 Longitude: 80 24.13

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
argillite/mudstone	56	56
Incident # 02261		
TW-3		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 56 ft. Date Started: 11/6/14 Date Completed: 11/11/14

10. CASING: ☑ Threaded ☐ Welded
Diam: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in to 51 ft. depth
5 in. to 35 ft. depth
Height: Above +3 /Below Surface ft.
Weight Sch 40 lb /ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam: 2"
Slot/Gauge: .010 Length: 5
Set Between: 51 ft. and 56 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 36 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 49 ft. to 56 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 46 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Mike Ransier (Well Driller) Date: 11/19/14

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

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

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.37 Longitude: 80 24.12

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
argillite/mudstone	61	61
Incident # 02261		
TW-4		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 61 ft. Date Started: 11/11/14 Date Completed: 11/12/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in to 56 ft. depth
5 in. to 40 ft depth
Height: Above /Below Surface -.25 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 56 ft. and 61 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 40 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 54 ft. to 61 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 46 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier CERT. NO.: 1152A
Address: (Print) 1 Piney Pt Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Mike Ransier Well Driller Date: 11/19/14

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

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: Former Carolina Country Convenience (last) (first)
Address: 1908 Hwy 601 N
City: Pageland State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: See Above
Street Address:
City: Zip:
Latitude: 34 47.38 Longitude: 80 24.111

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
argillite/mudstone	61	61
Incident # 02261		
TW-5		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: INCIDENT # 02261

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

9. WELL DEPTH (completed) 61 ft. Date Started 11/11/14 Date Completed: 11/12/14

10. CASING: ☑ Threaded ☐ Welded
Diam. _____
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in to 56 ft. depth
5 in. to 40 ft. depth
Height: Above /Below Surface -.25 ft.
Weight Sch 40 lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 5
Set Between: 56 ft. and 61 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 40 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
NA 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 54 ft. to 61 ft.
Effective size medium Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 46 ft.

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

18. PUMP: Date installed: NA 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: Michael Ransier **CERT. NO.:** 1152A
Address: (Print) 1 Piney Pt
Whispering Pines, NC 28327
Level: A B C D (circle one)
Telephone No.: 910-690-6688 Fax No.:

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

Signed: Mike Ransier Date: 11/19/14
Well Driller

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

APPENDIX I
Disposal Manifest

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

Manifest Document No

2. Page 1 of 1

3. Generator's Name and Mailing Address: GRI — CAROLINA COUNTRY CONVENIENCE, 1908 Hwy 601 N., PAGELAND, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR, Inc — 6. US EPA ID Number: NCR-000137916

A. State Transporter's ID

B. Transporter 1 Phone: 910-640-2607

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: HERR, Inc., 363 J. MAYCOCK ST., WHITEVILLE, NC — 10. US EPA ID Number: NCR-000139916

E. State Facility's ID

F. Facility's Phone: 910-640-2607

11. WASTE DESCRIPTION	12. Containers No	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Reg. Petroleum Contact Purge Water		DM	420	GAL
b. Petroleum Contaminated Soil		DM	5	TON
c. Empty			1	
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

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.

GENERATOR

Printed/Typed Name: DEBBIE HARRISON — Signature — Date: Month 12 Day 29 Year 14

17. Transporter 1 Acknowledgement of Receipt of Materials

TRANSPORTER

Printed/Typed Name: Mark Gore — Signature — Date: Month 12 Day 29 Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

FACILITY

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: Mark Cox — Signature — Date: Month 12 Day 29 Year 14

NON-HAZARDOUS WASTE

F-14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

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Rev. 3 95

APPENDIX J
Slug Test Data

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

SOUTH CAROLINA
Department of Health and Evnironmental Control
Summary of Slug Test Form

Site Data

UST Permit # 02261 County: CHESTERFIELD

Facility Name CAROLINA COUNTRY CONVENIENCE

Slug Data

See Appendix J Table 6 Figure ____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by SOUNST DATA LOGGER.
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method).

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number	MW-11			
Initial Rise/Drawdown in well (feet)	1.54			
Radius of Well Casing (feet)	0.085			
Effective Radius of Well (feet)	0.208			
Static Saturated Aquifer Thickness (feet)	30.29			
Length of Well Screen (feet)	5			
Static Height of Water Column in Well (ft)	4.71			

Calculations

See Appendix J Table 6 Figure ____ for calculations. (Complete as appropriate).

The method for aquifer calculations was BOUWER & RICE

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	MW-11			
Hydraulic Conductivity ft/MIN	7.78×10^{-6}			

Thickness of the aquifer used to calculate hydraulic conductivity was 30.29 feet.

The aquifer is ____ confined X semi-confined ____ water table (Check as appropriate).

The estimated seepage velocity is 0.82 feet per year based on a hydraulic conductivity of 7.78×10^{-6} ft/min a hydraulic gradient of 0.06, and a porosity of 0.3 per cent for META-ARGILLITE soil (list type i.e., silty sand ,clay, etc).

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

SOUTH CAROLINA
Department of Health and Evnironmental Control
Summary of Slug Test Form

Site Data

UST Permit # 02261 County: CHESTERFIELD

Facility Name CAROLINA COUNTRY CONVENIENCE

Slug Data

See Appendix J Table 6 Figure ____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by SOLINST DATA LOGGER.
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method).

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number	MW-14			
Initial Rise/Drawdown in well (feet)	1.51			
Radius of Well Casing (feet)	0.085			
Effective Radius of Well (feet)	0.208			
Static Saturated Aquifer Thickness (feet)	29.10			
Length of Well Screen (feet)	5			
Static Height of Water Column in Well (ft)	5.90			

Calculations

See Appendix J Table 6 Figure ____ for calculations. (Complete as appropriate).

The method for aquifer calculations was BOUWER & RICE

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	MW-14			
Hydraulic Conductivity ft/min	1.266×10^{-3}			

Thickness of the aquifer used to calculate hydraulic conductivity was 29.10 feet.

The aquifer is ____ confined X semi-confined ____ water table (Check as appropriate).

The estimated seepage velocity is 1.93 feet per year based on a hydraulic conductivity of 1.266×10^{-5} ft/min a hydraulic gradient of 0.06, and a porosity of 0.3 per cent for META-ARGILLITE soil (list type i.e., silty sand ,clay, etc).

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

SOUTH CAROLINA
Department of Health and Evnironmental Control
Summary of Slug Test Form

Site Data

UST Permit # 02261 County: CHESTERFIELD

Facility Name CAROLINA COUNTRY CONVENIENCE

Slug Data

See Appendix J Table 6 Figure ____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by SOLINST DATA LOGGER.
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method).

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number	TW-4			
Initial Rise/Drawdown in well (feet)	1.723			
Radius of Well Casing (feet)	0.085			
Effective Radius of Well (feet)	0.208			
Static Saturated Aquifer Thickness (feet)	30.82			
Length of Well Screen (feet)	5			
Static Height of Water Column in Well (ft)	30.18			

Calculations

See Appendix J Table 6 Figure ____ for calculations. (Complete as appropriate).

The method for aquifer calculations was BOUWER & RICE

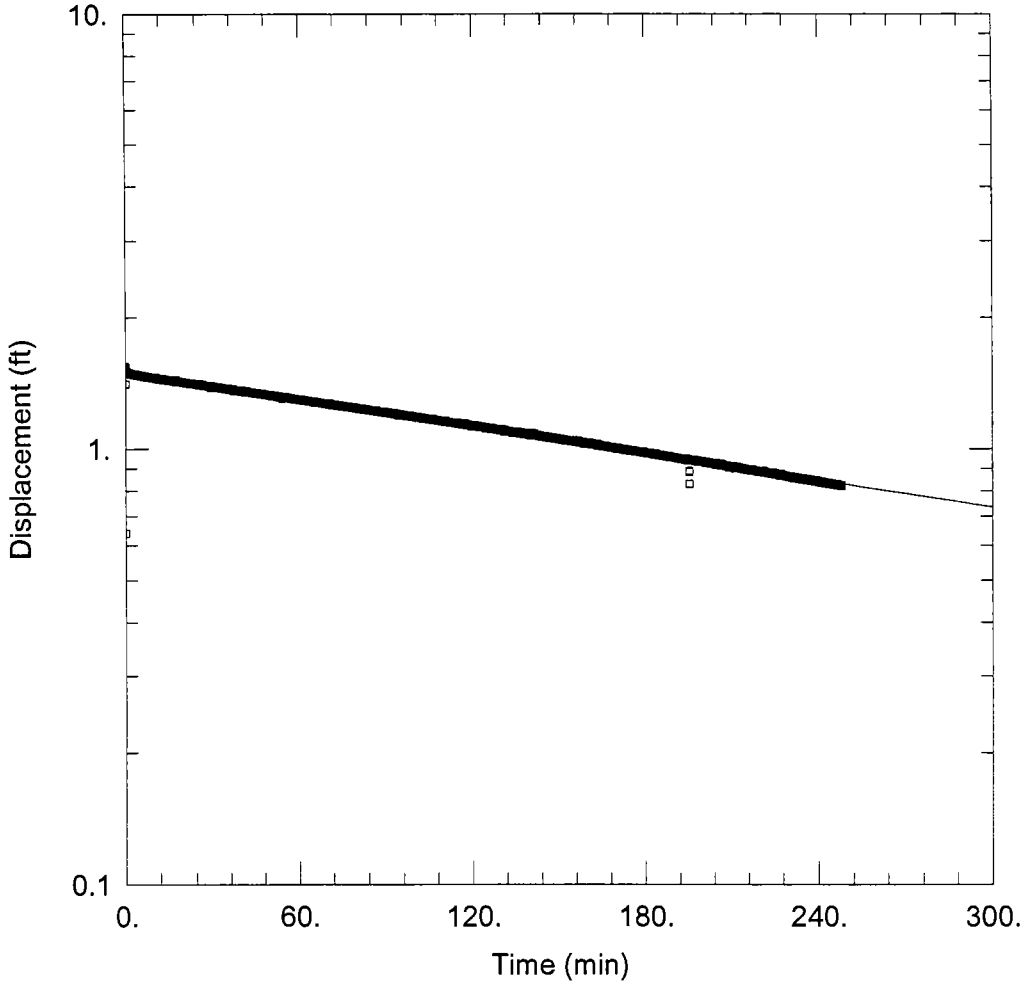
Calculated values by well were as follows:

Slug Test Conducted in well(s) number	TW-4			
Hydraulic Conductivity FT/MIN	2.12x10-3			

Thickness of the aquifer used to calculate hydraulic conductivity was 30.82 feet.

The aquifer is ____ confined X semi-confined ____ water table (Check as appropriate).

The estimated seepage velocity is 222.65 feet per year based on a hydraulic conductivity of 2.12x10-3 FT/MIN, a hydraulic gradient of 0.06, and a porosity of 0.3 per cent for META-ARGILLITE soil (list type i.e., silty sand ,clay, etc).



WELL TEST ANALYSIS

Data Set:
Date: 01/15/15 Time: 11:50:05

PROJECT INFORMATION

Company: Geological Resources, Inc
Client: Carolina Country Convenience
Location: Pageland, SC
Test Well: MW-11
Test Date: 11/20/14

AQUIFER DATA

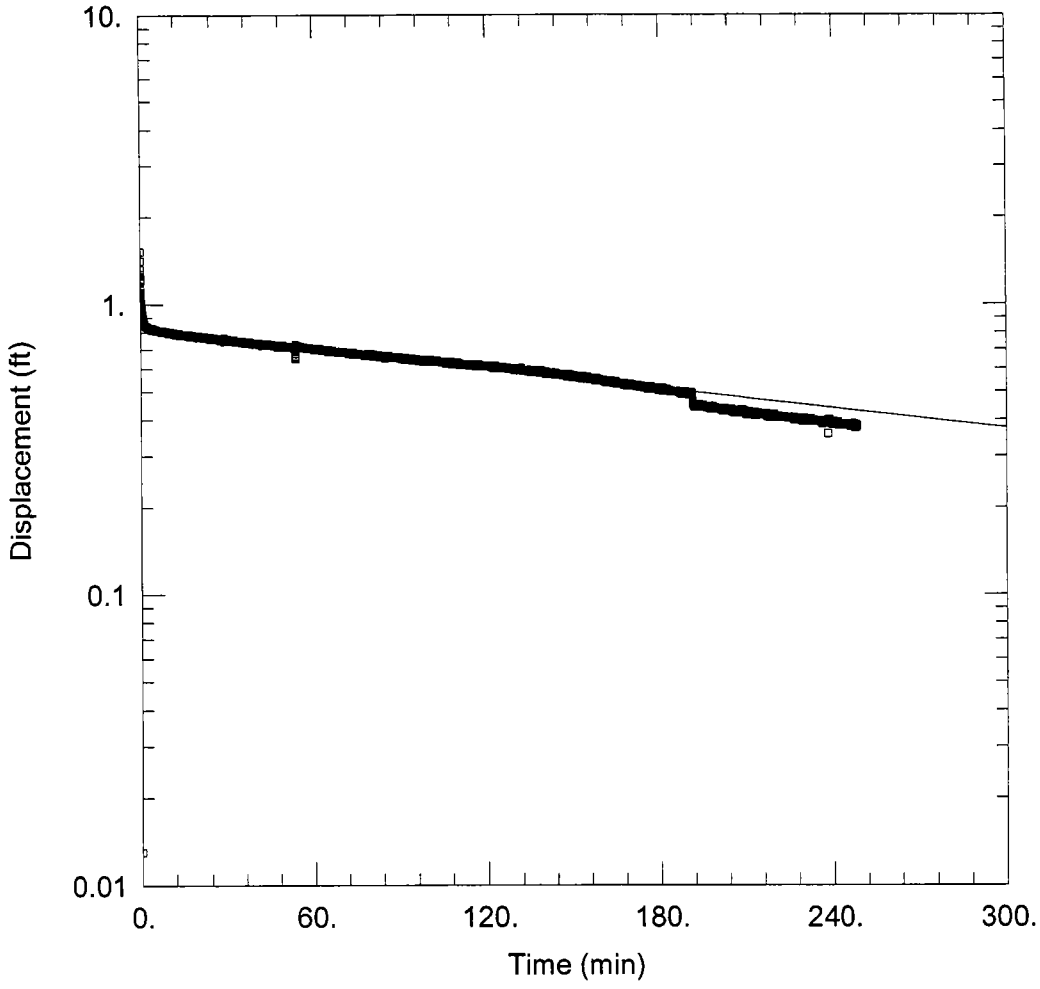
Saturated Thickness: 30.29 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-11)

Initial Displacement: 1.544 ft
Total Well Penetration Depth: 9.23 ft
Casing Radius: 0.085 ft
Static Water Column Height: 9.23 ft
Screen Length: 9.23 ft
Well Radius: 0.208 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 7.78E-6 ft/min
y0 = 1.493 ft



WELL TEST ANALYSIS

Data Set: F:\...\MW-14.aqt
Date: 01/15/15 Time: 12:17:10

PROJECT INFORMATION

Company: Geological Resources, Inc
Client: Carolina Country Convenience
Location: Pageland, SC
Test Well: MW-14
Test Date: 11/20/14

AQUIFER DATA

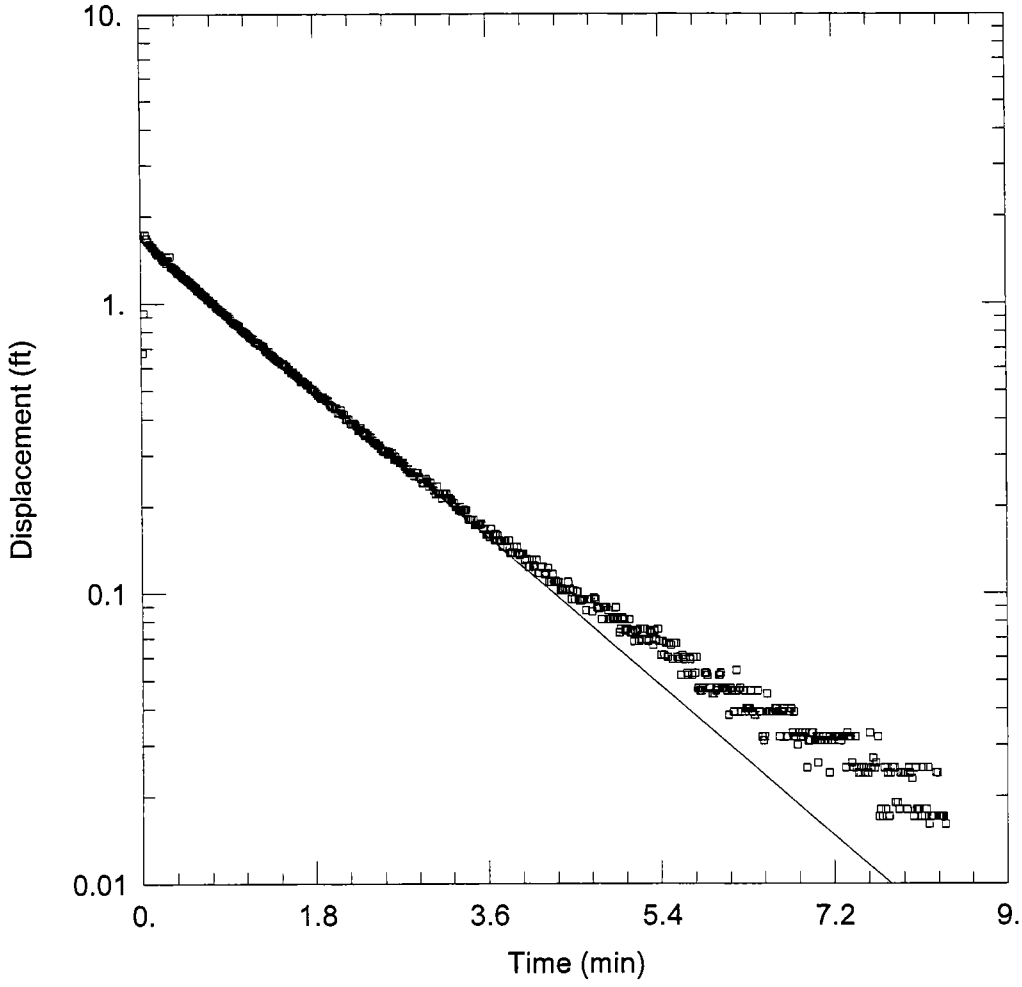
Saturated Thickness: 29.1 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-14)

Initial Displacement: 1.514 ft
Total Well Penetration Depth: 5.49 ft
Casing Radius: 0.085 ft
Static Water Column Height: 5.49 ft
Screen Length: 5.49 ft
Well Radius: 0.208 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.266E-5 ft/min
y0 = 0.8264 ft



WELL TEST ANALYSIS

Data Set:
Date: 01/15/15 Time: 12:12:25

PROJECT INFORMATION

Company: Geological Resources, Inc
Client: Carolina Country Convenience
Location: Pageland, SC
Test Well: TW-4
Test Date: 11/20/14

AQUIFER DATA

Saturated Thickness: 30.82 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (TW-4)

Initial Displacement: 1.723 ft
Total Well Penetration Depth: 33.3 ft
Casing Radius: 0.085 ft
Static Water Column Height: 33.32 ft
Screen Length: 5. ft
Well Radius: 0.208 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.00212 ft/min
y0 = 1.648 ft

AQTESOLV DATA ENTRY FORM

(For wells screened ACROSS water table)

Page	Item	Value	Remarks
NA	Static depth to water (SDTW)	25.62	Test well
	Initial DTW (IDTW) - after remove/introduce slug	27.16	Test well
	Total well depth (TWD)	34.85	Test well
	Top of Casing Elevation (TOC)	101.41	Test well
	Ground water elevation (GWE)	75.79	TOC minus SDTW
	Deepest well mid-screen elevation (MSE)	45.50	Deepest well
5	Project Name	Carolina Country Convenience	
	Project location (city, state)	Pageland, SC	
	Test Well #	MW-11	
	Date slug test conducted	11/20/14	
6	**H(o)**: Initial displacement	1.544	IDTW minus SDTW
	H: Static water column height	9.23	TWD minus SDTW
	Well #	MW-11	Test well
7	b: Saturated thickness of aquifer	30.29	GWE in test well minus MSE * If no telescoping well, use H
	KV/KH:	0.1	Use 0.1
8	D: Casing length	0.0	Use 0.0
	L: Well screen length	9.23	Use H
9	R(c): Inside radius of well casing	0.085	Use 0.085 for 2" wells; use 0.167 for 4" wells
	R(w): Well radius	0.21	1/2 auger outside diameter in feet
	R(sk): Well skin radius	0.21	1/2 auger outside diameter in feet
10	N(e):	0.3	Use 0.3
	H(o):	1.54	Use H(o)

AQTESOLV DATA ENTRY FORM

(For wells screened ACROSS water table)

Page	Item	Value	Remarks
NA	Static depth to water (SDTW)	29.51	Test well
	Initial DTW (IDTW) - after remove/introduce slug	31.02	Test well
	Total well depth (TWD)	35.00	Test well
	Top of Casing Elevation (TOC)	104.11	Test well
	Ground water elevation (GWE)	74.60	TOC minus SDTW
	Deepest well mid-screen elevation (MSE)	45.50	Deepest well
5	Project Name	Carolina Country Convenience	
	Project location (city, state)	Pageland, SC	
	Test Well #	MW-14	
	Date slug test conducted	11/20/14	
6	**H(o)**: Initial displacement	1.514	IDTW minus SDTW
	H: Static water column height	5.49	TWD minus SDTW
	Well #	MW-14	Test well
7	b: Saturated thickness of aquifer	29.10	GWE in test well minus MSE * If no telescoping well, use H
	KV/KH:	0.1	Use 0.1
8	D: Casing length	0.0	Use 0.0
	L: Well screen length	5.49	Use H
9	R(c): Inside radius of well casing	0.085	Use 0.085 for 2" wells; use 0.167 for 4" wells
	R(w): Well radius	0.21	1/2 auger outside diameter in feet
	R(sk): Well skin radius	0.21	1/2 auger outside diameter in feet
10	N(e):	0.3	Use 0.3
	H(o):	1.51	Use H(o)

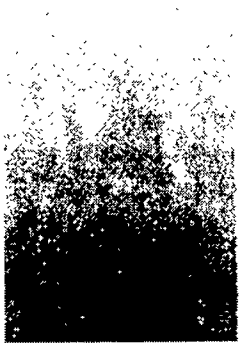
AQTESOLV DATA ENTRY FORM
(For wells screened BELOW water table)

Page	Item	Value	Remarks
NA	Static depth to water (SDTW)	27.68	Test well
	Initial DTW (IDTW) - after remove/introduce slug	29.40	Test well
	Total well depth (TWD)	61.00	Test well
	Top of Casing Elevation (TOC)	104.00	Test well
	Ground water elevation (GWE)	76.32	TOC minus SDTW
	Deepest well mid-screen elevation (MSE)	45.50	Deepest well
5	Project Name	Carolina Country Convenience	
	Project location (city, state)	Pageland, SC	
	Test Well #	TW-4	
	Date slug test conducted	11/20/14	
6	**H(o)**: Initial displacement	1.723	IDTW minus SDTW
	H: Static water column height	33.32	TWD minus SDTW
	Well #	TW-4	Test well
7	b: Saturated thickness of aquifer	30.82	GWE in test well minus MSE * If no telescoping well, use H
	KV/KH:	0.1	Use 0.1
8	D: Casing length	28.3	TWD minus SDTW minus screen length
	L: Well screen length	5.00	Screen length
9	R(c): Inside radius of well casing	0.085	Use 0.085 for 2" wells; use 0.167 for 4" wells
	R(w): Well radius	0.21	1/2 auger outside diameter
	R(sk): Well skin radius	0.21	1/2 auger outside diameter

APPENDIX K
Laboratory Analytical Report – Ground Water Samples

ACCUTEST LABORATORIES Southeast

12/05/14



Technical Report for

GRI (Geological Resources Inc.)

Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

02261

Accutest Job Number: FA20177

Sampling Dates: 11/18/14 - 11/20/14

Report to:

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Total number of pages in report: **147**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

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Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA20177

Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Project No: 02261

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA20177-1	11/18/14	15:21	AR	11/21/14	AQ	Ground Water	02261 MW-6
FA20177-2	11/20/14	10:51	AR	11/21/14	AQ	Ground Water	02261 MW-7
FA20177-3	11/20/14	10:33	AR	11/21/14	AQ	Ground Water	02261 MW-8
FA20177-4	11/20/14	09:52	AR	11/21/14	AQ	Ground Water	02261 MW-9
FA20177-5	11/18/14	14:58	AR	11/21/14	AQ	Ground Water	02261 MW-10
FA20177-6	11/19/14	14:01	AR	11/21/14	AQ	Ground Water	02261 MW-11
FA20177-7	11/19/14	14:16	AR	11/21/14	AQ	Ground Water	02261 MW-12
FA20177-8	11/19/14	14:33	AR	11/21/14	AQ	Ground Water	02261 MW-13
FA20177-9	11/19/14	15:21	AR	11/21/14	AQ	Ground Water	02261 MW-14
FA20177-10	11/20/14	11:54	AR	11/21/14	AQ	Ground Water	02261 TW-1
FA20177-11	11/20/14	11:33	AR	11/21/14	AQ	Ground Water	02261 TW-2
FA20177-12	11/20/14	10:15	AR	11/21/14	AQ	Ground Water	02261 TW-3
FA20177-13	11/19/14	10:49	AR	11/21/14	AQ	Ground Water	18871 MW-10

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA20177

Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Project No: 02261

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
FA20177-14	11/18/14	15:44 AR	11/21/14	AQ	Ground Water	18871 MW-20
FA20177-15	11/19/14	10:28 AR	11/21/14	AQ	Ground Water	18871 MW-20D
FA20177-16	11/19/14	11:15 AR	11/21/14	AQ	Ground Water	18871 MW-21
FA20177-17	11/19/14	12:11 AR	11/21/14	AQ	Ground Water	18871 MW-21D
FA20177-18	11/19/14	12:36 AR	11/21/14	AQ	Ground Water	18871 MW-22
FA20177-19	11/19/14	13:05 AR	11/21/14	AQ	Ground Water	18871 MW-22D
FA20177-20	11/19/14	11:34 AR	11/21/14	AQ	Ground Water	02261 MW-1
FA20177-21	11/18/14	11:50 AR	11/21/14	AQ	Ground Water	02261 MW-2
FA20177-22	11/18/14	11:23 AR	11/21/14	AQ	Ground Water	02261 MW-3
FA20177-23	11/18/14	10:56 AR	11/21/14	AQ	Ground Water	02261 MW-4
FA20177-24	11/18/14	10:34 AR	11/21/14	AQ	Ground Water	02261 MW-5
FA20177-25	11/19/14	15:44 AR	11/21/14	AQ	Ground Water	02261 TW-4
FA20177-26	11/19/14	14:57 AR	11/21/14	AQ	Ground Water	02261 TW-5

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA20177

Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Project No: 02261

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA20177-27	11/19/14	00:00	AR	11/21/14	AQ	Ground Water	02261 DUP A
FA20177-28	11/19/14	00:00	AR	11/21/14	AQ	Ground Water	02261 DUP B
FA20177-29	11/19/14	15:54	AR	11/21/14	AQ	Field Blank Water	02261 FIELD BLANK
FA20177-30	11/20/14	00:00	AR	11/21/14	AQ	Trip Blank Water	02261 TRIP BLANK
FA20177-31	11/20/14	12:16	AR	11/21/14	AQ	Ground Water	02261 PW-3

Summary of Hits

2

Job Number: FA20177
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 11/18/14 thru 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20177-1	**02261 MW-6**					
Methyl Tert Butyl Ether		0.67 J	1.0	0.20	ug/l	SW846 8260B
Lead		7.1	5.0		ug/l	SW846 6010C
FA20177-2	**02261 MW-7**					
Lead		5.9	5.0		ug/l	SW846 6010C
FA20177-3	**02261 MW-8**					
No hits reported in this sample.						
FA20177-4	**02261 MW-9**					
Lead		6.6	5.0		ug/l	SW846 6010C
FA20177-5	**02261 MW-10**					
Benzene		9.3	1.0	0.24	ug/l	SW846 8260B
Xylene (total)		3.4	3.0	0.66	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.83 J	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloroethane		0.34 J	1.0	0.24	ug/l	SW846 8260B
Tert-Amyl Alcohol		54.5	20	7.4	ug/l	SW846 8260B
Tert-Butyl Alcohol		12.3 J	20	8.8	ug/l	SW846 8260B
Lead		9.9	5.0		ug/l	SW846 6010C
FA20177-6	**02261 MW-11**					
Benzene		18100	200	49	ug/l	SW846 8260B
Toluene		6040	200	40	ug/l	SW846 8260B
Ethylbenzene		2590	200	56	ug/l	SW846 8260B
Xylene (total)		12900	600	130	ug/l	SW846 8260B
Methyl Tert Butyl Ether		671	200	40	ug/l	SW846 8260B
Naphthalene		569 J	1000	200	ug/l	SW846 8260B
1,2-Dichloroethane		530	200	48	ug/l	SW846 8260B
Tert-Amyl Alcohol		88000	4000	1500	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		106 J	400	44	ug/l	SW846 8260B
Tert-Butyl Alcohol		6100	4000	1800	ug/l	SW846 8260B
1,2-Dibromoethane [a]		44.9	1.9	0.96	ug/l	SW846 8011
Lead		9.1	5.0		ug/l	SW846 6010C
FA20177-7	**02261 MW-12**					
Benzene		14400	200	49	ug/l	SW846 8260B

Summary of Hits

Job Number: FA20177
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 11/18/14 thru 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		19800	250	50	ug/l	SW846 8260B
Ethylbenzene		2230	200	56	ug/l	SW846 8260B
Xylene (total)		12400	600	130	ug/l	SW846 8260B
Methyl Tert Butyl Ether		356	200	40	ug/l	SW846 8260B
Naphthalene		494 J	1000	200	ug/l	SW846 8260B
1,2-Dichloroethane		308	200	48	ug/l	SW846 8260B
Tert-Amyl Alcohol		34100	4000	1500	ug/l	SW846 8260B
Tert-Butyl Alcohol		3420 J	4000	1800	ug/l	SW846 8260B
1,2-Dibromoethane [a]		81.6	3.8	1.9	ug/l	SW846 8011
FA20177-8	**02261 MW-13**					
Benzene		4600	100	24	ug/l	SW846 8260B
Toluene		478	100	20	ug/l	SW846 8260B
Ethylbenzene		1930	100	28	ug/l	SW846 8260B
Xylene (total)		6420	300	66	ug/l	SW846 8260B
Methyl Tert Butyl Ether		40.7 J	100	20	ug/l	SW846 8260B
Naphthalene		561	500	100	ug/l	SW846 8260B
1,2-Dichloroethane		45.3 J	100	24	ug/l	SW846 8260B
Tert-Amyl Alcohol		9820	2000	740	ug/l	SW846 8260B
1,2-Dibromoethane [a]		4.6	0.38	0.19	ug/l	SW846 8011
Lead		23.3	5.0		ug/l	SW846 6010C
FA20177-9	**02261 MW-14**					
Benzene		11200	200	49	ug/l	SW846 8260B
Toluene		18300	200	40	ug/l	SW846 8260B
Ethylbenzene		1520	200	56	ug/l	SW846 8260B
Xylene (total)		8560	600	130	ug/l	SW846 8260B
Methyl Tert Butyl Ether		221	200	40	ug/l	SW846 8260B
Naphthalene		468 J	1000	200	ug/l	SW846 8260B
1,2-Dichloroethane		268	200	48	ug/l	SW846 8260B
Tert-Amyl Alcohol		23600	4000	1500	ug/l	SW846 8260B
Tert-Butyl Alcohol		2040 J	4000	1800	ug/l	SW846 8260B
1,2-Dibromoethane [a]		153	9.5	4.8	ug/l	SW846 8011
FA20177-10	**02261 TW-1**					
1,2-Dibromoethane [a]		0.045	0.019	0.0093	ug/l	SW846 8011
FA20177-11	**02261 TW-2**					

No hits reported in this sample.

Summary of Hits

Job Number: FA20177
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 11/18/14 thru 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20177-12	**02261 TW-3**					
Toluene		0.94 J	1.0	0.20	ug/l	SW846 8260B
Lead		58.4	5.0		ug/l	SW846 6010C
FA20177-13	**18871 MW-10**					
Benzene		2460	50	12	ug/l	SW846 8260B
Toluene		13.0 J	50	10	ug/l	SW846 8260B
Ethylbenzene		546	50	14	ug/l	SW846 8260B
Xylene (total)		1490	150	33	ug/l	SW846 8260B
Methyl Tert Butyl Ether		181	50	10	ug/l	SW846 8260B
Naphthalene		277	250	50	ug/l	SW846 8260B
1,2-Dichloroethane		52.7	50	12	ug/l	SW846 8260B
Tert-Amyl Alcohol		2200	1000	370	ug/l	SW846 8260B
Tert-Butyl Alcohol		1560	1000	440	ug/l	SW846 8260B
1,2-Dibromoethane [a]		1.5	0.077	0.038	ug/l	SW846 8011
Lead		29.6	5.0		ug/l	SW846 6010C
FA20177-14	**18871 MW-20**					
Benzene		3760	50	12	ug/l	SW846 8260B
Toluene		24.2 J	50	10	ug/l	SW846 8260B
Ethylbenzene		671	50	14	ug/l	SW846 8260B
Xylene (total)		3420	150	33	ug/l	SW846 8260B
Methyl Tert Butyl Ether		268	50	10	ug/l	SW846 8260B
Naphthalene		255	250	50	ug/l	SW846 8260B
1,2-Dichloroethane		64.3	50	12	ug/l	SW846 8260B
Tert-Amyl Alcohol		3480	1000	370	ug/l	SW846 8260B
Tert-Butyl Alcohol		753 J	1000	440	ug/l	SW846 8260B
1,2-Dibromoethane [a]		3.5	0.095	0.048	ug/l	SW846 8011
Lead		49.8	5.0		ug/l	SW846 6010C
FA20177-15	**18871 MW-20D**					
Benzene		1.9	1.0	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether		15.2	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloroethane		1.1	1.0	0.24	ug/l	SW846 8260B
Tert-Amyl Alcohol		7.7 J	20	7.4	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		0.56 J	2.0	0.22	ug/l	SW846 8260B
Tert-Butyl Alcohol		20.1	20	8.8	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.057	0.019	0.0096	ug/l	SW846 8011
Lead		34.8	5.0		ug/l	SW846 6010C

Summary of Hits

Job Number: FA20177
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 11/18/14 thru 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20177-16	**18871 MW-21**					
Benzene		16300	500	120	ug/l	SW846 8260B
Toluene		21000	500	100	ug/l	SW846 8260B
Ethylbenzene		1710	500	140	ug/l	SW846 8260B
Xylene (total)		9690	1500	330	ug/l	SW846 8260B
Methyl Tert Butyl Ether		3670	500	100	ug/l	SW846 8260B
Naphthalene [c]		360 E	5.0	1.0	ug/l	SW846 8260B
1,2-Dichloroethane		676	500	120	ug/l	SW846 8260B
Di-Isopropyl ether		14.5	1.0	0.23	ug/l	SW846 8260B
Tert-Amyl Alcohol		32800	10000	3700	ug/l	SW846 8260B
Tert-Butyl Alcohol		34500	10000	4400	ug/l	SW846 8260B
1,2-Dibromoethane [a]		85.5	3.8	1.9	ug/l	SW846 8011
Lead		14.9	5.0		ug/l	SW846 6010C
FA20177-17	**18871 MW-21D**					
Benzene		950	20	4.9	ug/l	SW846 8260B
Toluene		613	20	4.0	ug/l	SW846 8260B
Ethylbenzene		42.1	20	5.6	ug/l	SW846 8260B
Xylene (total)		225	60	13	ug/l	SW846 8260B
Methyl Tert Butyl Ether		482	20	4.0	ug/l	SW846 8260B
Naphthalene		28.7 J	100	20	ug/l	SW846 8260B
1,2-Dichloroethane		55.4	20	4.8	ug/l	SW846 8260B
Tert-Amyl Alcohol		6020	400	150	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		6.2 J	40	4.4	ug/l	SW846 8260B
Tert-Butyl Alcohol		3470	400	180	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.60	0.019	0.0094	ug/l	SW846 8011
FA20177-18	**18871 MW-22**					
Benzene		1490	25	6.1	ug/l	SW846 8260B
Toluene		44.4	25	5.0	ug/l	SW846 8260B
Ethylbenzene		304	25	7.0	ug/l	SW846 8260B
Xylene (total)		1970	75	17	ug/l	SW846 8260B
Methyl Tert Butyl Ether		41.2	25	5.0	ug/l	SW846 8260B
Naphthalene		181	130	25	ug/l	SW846 8260B
1,2-Dichloroethane		24.5 J	25	6.0	ug/l	SW846 8260B
Tert-Amyl Alcohol		2140	500	190	ug/l	SW846 8260B
Tert-Butyl Alcohol		473 J	500	220	ug/l	SW846 8260B
1,2-Dibromoethane [a]		4.5	0.38	0.19	ug/l	SW846 8011
Lead		6.9	5.0		ug/l	SW846 6010C

Summary of Hits

Job Number: FA20177
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 11/18/14 thru 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20177-19	**18871 MW-22D**					
Benzene		2250	50	12	ug/l	SW846 8260B
Toluene		63.2	2.0	0.40	ug/l	SW846 8260B
Ethylbenzene		519	50	14	ug/l	SW846 8260B
Xylene (total)		771	150	33	ug/l	SW846 8260B
Methyl Tert Butyl Ether		99.0	2.0	0.40	ug/l	SW846 8260B
Naphthalene		266	250	50	ug/l	SW846 8260B
1,2-Dichloroethane		35.4	2.0	0.48	ug/l	SW846 8260B
Tert-Amyl Alcohol		4200	1000	370	ug/l	SW846 8260B
Tert-Butyl Alcohol		1440	40	18	ug/l	SW846 8260B
1,2-Dibromoethane [a]		1.4	0.076	0.038	ug/l	SW846 8011
Lead		23.0	5.0		ug/l	SW846 6010C
FA20177-20	**02261 MW-1**					
Benzene		23400	250	61	ug/l	SW846 8260B
Toluene		10200	250	50	ug/l	SW846 8260B
Ethylbenzene		1780	250	70	ug/l	SW846 8260B
Xylene (total)		9590	750	170	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2900	250	50	ug/l	SW846 8260B
Naphthalene		520 J	1300	250	ug/l	SW846 8260B
1,2-Dichloroethane		934	250	60	ug/l	SW846 8260B
Tert-Amyl Alcohol		45200	5000	1900	ug/l	SW846 8260B
Tert-Butyl Alcohol		28500	5000	2200	ug/l	SW846 8260B
1,2-Dibromoethane [a]		123	3.8	1.9	ug/l	SW846 8011
Lead		6.5	5.0		ug/l	SW846 6010C
FA20177-21	**02261 MW-2**					
1,2-Dibromoethane [d]		0.046	0.019	0.0096	ug/l	SW846 8011
Lead		106	5.0		ug/l	SW846 6010C
FA20177-22	**02261 MW-3**					
1,2-Dibromoethane [d]		0.028	0.019	0.0093	ug/l	SW846 8011
Lead		49.4	5.0		ug/l	SW846 6010C
FA20177-23	**02261 MW-4**					
1,2-Dibromoethane [d]		0.020	0.019	0.0095	ug/l	SW846 8011
Lead		48.9	5.0		ug/l	SW846 6010C

2

Summary of Hits

Job Number: FA20177
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 11/18/14 thru 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20177-24	**02261 MW-5**					
No hits reported in this sample.						
FA20177-25	**02261 TW-4**					
Benzene		9700	100	24	ug/l	SW846 8260B
Toluene		168	100	20	ug/l	SW846 8260B
Ethylbenzene		698	100	28	ug/l	SW846 8260B
Xylene (total)		720	300	66	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1870	100	20	ug/l	SW846 8260B
Naphthalene		214 J	500	100	ug/l	SW846 8260B
1,2-Dichloroethane		415	100	24	ug/l	SW846 8260B
Tert-Amyl Alcohol		12400	2000	740	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		65.1 J	200	22	ug/l	SW846 8260B
Tert-Butyl Alcohol		2580	2000	880	ug/l	SW846 8260B
1,2-Dibromoethane [a]		1.9	0.095	0.048	ug/l	SW846 8011
Lead		66.4	5.0		ug/l	SW846 6010C
FA20177-26	**02261 TW-5**					
Benzene		3240	50	12	ug/l	SW846 8260B
Toluene		654	50	10	ug/l	SW846 8260B
Ethylbenzene		1670	50	14	ug/l	SW846 8260B
Xylene (total)		5840	150	33	ug/l	SW846 8260B
Methyl Tert Butyl Ether		65.4	50	10	ug/l	SW846 8260B
Naphthalene		577	250	50	ug/l	SW846 8260B
1,2-Dichloroethane		53.0	50	12	ug/l	SW846 8260B
Tert-Amyl Alcohol		9690	1000	370	ug/l	SW846 8260B
Tert-Butyl Alcohol		892 J	1000	440	ug/l	SW846 8260B
1,2-Dibromoethane [a]		3.5	0.38	0.19	ug/l	SW846 8011
Lead		70.8	5.0		ug/l	SW846 6010C
FA20177-27	**02261 DUP A**					
Benzene		22100	250	61	ug/l	SW846 8260B
Toluene		10400	250	50	ug/l	SW846 8260B
Ethylbenzene		1640	250	70	ug/l	SW846 8260B
Xylene (total)		9020	750	170	ug/l	SW846 8260B
Methyl Tert Butyl Ether		2640	250	50	ug/l	SW846 8260B
Naphthalene		665 J	1300	250	ug/l	SW846 8260B
1,2-Dichloroethane		873	250	60	ug/l	SW846 8260B
Tert-Amyl Alcohol		41000	5000	1900	ug/l	SW846 8260B
Tert-Butyl Alcohol		26000	5000	2200	ug/l	SW846 8260B
1,2-Dibromoethane [a]		138	4.7	2.3	ug/l	SW846 8011

2

Summary of Hits

Job Number: FA20177
Account: GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC
Collected: 11/18/14 thru 11/20/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		56.3	5.0		ug/l	SW846 6010C
FA20177-28	**02261 DUP B**					
Benzene		11500	200	49	ug/l	SW846 8260B
Toluene		19300	200	40	ug/l	SW846 8260B
Ethylbenzene		1710	200	56	ug/l	SW846 8260B
Xylene (total)		9230	600	130	ug/l	SW846 8260B
Methyl Tert Butyl Ether		213	200	40	ug/l	SW846 8260B
Naphthalene		461 J	1000	200	ug/l	SW846 8260B
1,2-Dichloroethane		261	200	48	ug/l	SW846 8260B
Tert-Amyl Alcohol		21900	4000	1500	ug/l	SW846 8260B
Tert-Butyl Alcohol		2220 J	4000	1800	ug/l	SW846 8260B
1,2-Dibromoethane [e]		121	3.8	1.9	ug/l	SW846 8011
Lead		7.5	5.0		ug/l	SW846 6010C

FA20177-29 02261 FIELD BLANK

No hits reported in this sample.

FA20177-30 02261 TRIP BLANK

No hits reported in this sample.

FA20177-31 02261 PW-3

No hits reported in this sample.

(a) All hits confirmed by dual column analysis.
(b) All hits confirmed by dual column analysis. Quantitation between primary and confirmation differed by > 40%. Lower value reported due to possible coelution.
(c) Compound was below calibration range at higher dilution.
(d) All hits confirmed by dual column analysis. Quantitation between primary and confirmation differed by > 40%. Lower value reported.
(e) Sample analyzed beyond hold time; reported results are considered minimum values. All hits confirmed by dual column analysis.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-6		
Lab Sample ID:	FA20177-1	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961772.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.67	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-6		
Lab Sample ID:	FA20177-1	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79242.D	1	12/01/14	NG	12/01/14	OP54083	GDD2355
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-6		
Lab Sample ID:	FA20177-1	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	7.1	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-7		
Lab Sample ID:	FA20177-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961773.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-7		
Lab Sample ID:	FA20177-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79264.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	78%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-7		
Lab Sample ID:	FA20177-2	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	5.9	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-8		
Lab Sample ID:	FA20177-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961774.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-8		
Lab Sample ID:	FA20177-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79268.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	74%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-8		
Lab Sample ID:	FA20177-3	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 MW-9		
Lab Sample ID:	FA20177-4	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961775.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-9		
Lab Sample ID:	FA20177-4	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79270.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	77%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-9		
Lab Sample ID:	FA20177-4	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.6	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 MW-10		
Lab Sample ID:	FA20177-5	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961776.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9.3	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	3.4	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.83	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	0.34	1.0	0.24	ug/l	J
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	54.5	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	12.3	20	8.8	ug/l	J
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-10		
Lab Sample ID:	FA20177-5	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79243.D	1	12/01/14	NG	12/01/14	OP54083	GDD2355
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	68%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-10		
Lab Sample ID:	FA20177-5	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	9.9	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 MW-11		
Lab Sample ID:	FA20177-6	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961780.D	200	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	18100	200	49	ug/l	
108-88-3	Toluene	6040	200	40	ug/l	
100-41-4	Ethylbenzene	2590	200	56	ug/l	
1330-20-7	Xylene (total)	12900	600	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	671	200	40	ug/l	
91-20-3	Naphthalene	569	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	530	200	48	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	45	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	760	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	4600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	40	ug/l	
75-85-4	Tert-Amyl Alcohol	88000	4000	1500	ug/l	
994-05-8	Tert-Amyl Methyl Ether	106	400	44	ug/l	J
75-65-0	Tert-Butyl Alcohol	6100	4000	1800	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	810	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-11		
Lab Sample ID:	FA20177-6	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79323.D	100	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	44.9	1.9	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-11		
Lab Sample ID:	FA20177-6	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	9.1	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 MW-12		
Lab Sample ID:	FA20177-7	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961781.D	200	11/24/14	MM	n/a	n/a	VJ4826
Run #2	J0961834.D	250	11/26/14	MM	n/a	n/a	VJ4828

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	14400	200	49	ug/l	
108-88-3	Toluene	19800 [a]	250	50	ug/l	
100-41-4	Ethylbenzene	2230	200	56	ug/l	
1330-20-7	Xylene (total)	12400	600	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	356	200	40	ug/l	
91-20-3	Naphthalene	494	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	308	200	48	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	45	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	760	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	4600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	40	ug/l	
75-85-4	Tert-Amyl Alcohol	34100	4000	1500	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	44	ug/l	
75-65-0	Tert-Butyl Alcohol	3420	4000	1800	ug/l	J
762-75-4	Tert-Butyl Formate	ND	4000	810	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	99%	79-125%
2037-26-5	Toluene-D8	105%	105%	85-112%
460-00-4	4-Bromofluorobenzene	101%	103%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-12		
Lab Sample ID:	FA20177-7	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79324.D	200	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	81.6	3.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-12		
Lab Sample ID:	FA20177-7	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-13		
Lab Sample ID:	FA20177-8	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961835.D	100	11/26/14	MM	n/a	n/a	VJ4828
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4600	100	24	ug/l	
108-88-3	Toluene	478	100	20	ug/l	
100-41-4	Ethylbenzene	1930	100	28	ug/l	
1330-20-7	Xylene (total)	6420	300	66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	40.7	100	20	ug/l	J
91-20-3	Naphthalene	561	500	100	ug/l	
107-06-2	1,2-Dichloroethane	45.3	100	24	ug/l	J
108-20-3	Di-Isopropyl ether	ND	100	23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	380	ug/l	
64-17-5	Ethyl Alcohol	ND	10000	2300	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	20	ug/l	
75-85-4	Tert-Amyl Alcohol	9820	2000	740	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	880	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	400	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-13		
Lab Sample ID:	FA20177-8	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79325.D	20	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	4.6	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-13		
Lab Sample ID:	FA20177-8	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	23.3	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-14		
Lab Sample ID:	FA20177-9	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961783.D	200	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	11200	200	49	ug/l	
108-88-3	Toluene	18300	200	40	ug/l	
100-41-4	Ethylbenzene	1520	200	56	ug/l	
1330-20-7	Xylene (total)	8560	600	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	221	200	40	ug/l	
91-20-3	Naphthalene	468	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	268	200	48	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	45	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	760	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	4600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	40	ug/l	
75-85-4	Tert-Amyl Alcohol	23600	4000	1500	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	44	ug/l	
75-65-0	Tert-Butyl Alcohol	2040	4000	1800	ug/l	J
762-75-4	Tert-Butyl Formate	ND	4000	810	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-14		
Lab Sample ID:	FA20177-9	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79326.D	500	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	153	9.5	4.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-14		
Lab Sample ID:	FA20177-9	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-1		
Lab Sample ID:	FA20177-10	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J0961777.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	110%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was not preserved to a pH < 2.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-1		
Lab Sample ID:	FA20177-10	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79406.D	1	12/04/14	NG	12/02/14	OP54099	GDD2358
Run #2							

	Initial Volume	Final Volume
Run #1	37.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.045	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 TW-1		
Lab Sample ID:	FA20177-10	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-2		
Lab Sample ID:	FA20177-11	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961778.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-2		
Lab Sample ID:	FA20177-11	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79276.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-2		
Lab Sample ID:	FA20177-11	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12057
(2) Prep QC Batch: MP28250

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-3		
Lab Sample ID:	FA20177-12	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961779.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	0.94	1.0	0.20	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 TW-3		
Lab Sample ID:	FA20177-12	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79277.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	71%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-3		
Lab Sample ID:	FA20177-12	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	58.4	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-10		
Lab Sample ID:	FA20177-13	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961784.D	50	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2460	50	12	ug/l	
108-88-3	Toluene	13.0	50	10	ug/l	J
100-41-4	Ethylbenzene	546	50	14	ug/l	
1330-20-7	Xylene (total)	1490	150	33	ug/l	
1634-04-4	Methyl Tert Butyl Ether	181	50	10	ug/l	
91-20-3	Naphthalene	277	250	50	ug/l	
107-06-2	1,2-Dichloroethane	52.7	50	12	ug/l	
108-20-3	Di-Isopropyl ether	ND	50	11	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	2500	190	ug/l	
64-17-5	Ethyl Alcohol	ND	5000	1200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	100	10	ug/l	
75-85-4	Tert-Amyl Alcohol	2200	1000	370	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	100	11	ug/l	
75-65-0	Tert-Butyl Alcohol	1560	1000	440	ug/l	
762-75-4	Tert-Butyl Formate	ND	1000	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-10		
Lab Sample ID:	FA20177-13	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79328.D	4	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	1.5	0.077	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-10		
Lab Sample ID:	FA20177-13	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	29.6	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-20		
Lab Sample ID:	FA20177-14	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961785.D	50	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3760	50	12	ug/l	
108-88-3	Toluene	24.2	50	10	ug/l	J
100-41-4	Ethylbenzene	671	50	14	ug/l	
1330-20-7	Xylene (total)	3420	150	33	ug/l	
1634-04-4	Methyl Tert Butyl Ether	268	50	10	ug/l	
91-20-3	Naphthalene	255	250	50	ug/l	
107-06-2	1,2-Dichloroethane	64.3	50	12	ug/l	
108-20-3	Di-Isopropyl ether	ND	50	11	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	2500	190	ug/l	
64-17-5	Ethyl Alcohol	ND	5000	1200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	100	10	ug/l	
75-85-4	Tert-Amyl Alcohol	3480	1000	370	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	100	11	ug/l	
75-65-0	Tert-Butyl Alcohol	753	1000	440	ug/l	J
762-75-4	Tert-Butyl Formate	ND	1000	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-20		
Lab Sample ID:	FA20177-14	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79257.D	5	12/02/14	NG	12/01/14	OP54083	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	3.5	0.095	0.048	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-20		
Lab Sample ID:	FA20177-14	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	49.8	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-20D		
Lab Sample ID:	FA20177-15	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961786.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.9	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	15.2	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	1.1	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	7.7	20	7.4	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	0.56	2.0	0.22	ug/l	J
75-65-0	Tert-Butyl Alcohol	20.1	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-20D		
Lab Sample ID:	FA20177-15	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79329.D	1	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [b]	0.057	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		63-137%

(a) All hits confirmed by dual column analysis.
(b) Quantitation between primary and confirmation differed by > 40%. Lower value reported due to possible coelution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-20D		
Lab Sample ID:	FA20177-15	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	34.8	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-21		
Lab Sample ID:	FA20177-16	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961788.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2	J0961837.D	500	11/26/14	MM	n/a	n/a	VJ4828

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	16300 [a]	500	120	ug/l	
108-88-3	Toluene	21000 [a]	500	100	ug/l	
100-41-4	Ethylbenzene	1710 [a]	500	140	ug/l	
1330-20-7	Xylene (total)	9690 [a]	1500	330	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3670 [a]	500	100	ug/l	
91-20-3	Naphthalene [b]	360	5.0	1.0	ug/l	E
107-06-2	1,2-Dichloroethane	676 [a]	500	120	ug/l	
108-20-3	Di-Isopropyl ether	14.5	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	32800 [a]	10000	3700	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	34500 [a]	10000	4400	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	99%	79-125%
2037-26-5	Toluene-D8	93%	107%	85-112%
460-00-4	4-Bromofluorobenzene	102%	101%	83-118%

(a) Result is from Run# 2
(b) Compound was below calibration range at higher dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18871 MW-21		
Lab Sample ID:	FA20177-16	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79330.D	200	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	85.5	3.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-21		
Lab Sample ID:	FA20177-16	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	14.9	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-21D		
Lab Sample ID:	FA20177-17	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961836.D	20	11/26/14	MM	n/a	n/a	VJ4828
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	950	20	4.9	ug/l	
108-88-3	Toluene	613	20	4.0	ug/l	
100-41-4	Ethylbenzene	42.1	20	5.6	ug/l	
1330-20-7	Xylene (total)	225	60	13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	482	20	4.0	ug/l	
91-20-3	Naphthalene	28.7	100	20	ug/l	J
107-06-2	1,2-Dichloroethane	55.4	20	4.8	ug/l	
108-20-3	Di-Isopropyl ether	ND	20	4.5	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1000	76	ug/l	
64-17-5	Ethyl Alcohol	ND	2000	460	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.0	ug/l	
75-85-4	Tert-Amyl Alcohol	6020	400	150	ug/l	
994-05-8	Tert-Amyl Methyl Ether	6.2	40	4.4	ug/l	J
75-65-0	Tert-Butyl Alcohol	3470	400	180	ug/l	
762-75-4	Tert-Butyl Formate	ND	400	81	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-21D		
Lab Sample ID:	FA20177-17	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79331.D	1	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.60	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18871 MW-21D		
Lab Sample ID:	FA20177-17	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-22		
Lab Sample ID:	FA20177-18	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961799.D	25	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1490	25	6.1	ug/l	
108-88-3	Toluene	44.4	25	5.0	ug/l	
100-41-4	Ethylbenzene	304	25	7.0	ug/l	
1330-20-7	Xylene (total)	1970	75	17	ug/l	
1634-04-4	Methyl Tert Butyl Ether	41.2	25	5.0	ug/l	
91-20-3	Naphthalene	181	130	25	ug/l	
107-06-2	1,2-Dichloroethane	24.5	25	6.0	ug/l	J
108-20-3	Di-Isopropyl ether	ND	25	5.7	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1300	95	ug/l	
64-17-5	Ethyl Alcohol	ND	2500	580	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	50	5.0	ug/l	
75-85-4	Tert-Amyl Alcohol	2140	500	190	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	50	5.5	ug/l	
75-65-0	Tert-Butyl Alcohol	473	500	220	ug/l	J
762-75-4	Tert-Butyl Formate	ND	500	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-22		
Lab Sample ID:	FA20177-18	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79332.D	20	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	4.5	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-22		
Lab Sample ID:	FA20177-18	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.9	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-22D		
Lab Sample ID:	FA20177-19	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961833.D	2	11/26/14	MM	n/a	n/a	VJ4828
Run #2	J0961800.D	50	11/25/14	MM	n/a	n/a	VJ4827

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2250 [a]	50	12	ug/l	
108-88-3	Toluene	63.2	2.0	0.40	ug/l	
100-41-4	Ethylbenzene	519 [a]	50	14	ug/l	
1330-20-7	Xylene (total)	771 [a]	150	33	ug/l	
1634-04-4	Methyl Tert Butyl Ether	99.0	2.0	0.40	ug/l	
91-20-3	Naphthalene	266 [a]	250	50	ug/l	
107-06-2	1,2-Dichloroethane	35.4	2.0	0.48	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.45	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	100	7.6	ug/l	
64-17-5	Ethyl Alcohol	ND	200	46	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	4.0	0.40	ug/l	
75-85-4	Tert-Amyl Alcohol	4200 [a]	1000	370	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	4.0	0.44	ug/l	
75-65-0	Tert-Butyl Alcohol	1440	40	18	ug/l	
762-75-4	Tert-Butyl Formate	ND	40	8.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	79-125%
2037-26-5	Toluene-D8	100%	106%	85-112%
460-00-4	4-Bromofluorobenzene	97%	104%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-22D		
Lab Sample ID:	FA20177-19	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79335.D	4	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	1.4	0.076	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18871 MW-22D		
Lab Sample ID:	FA20177-19	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	23.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-1		
Lab Sample ID:	FA20177-20	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961801.D	250	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	23400	250	61	ug/l	
108-88-3	Toluene	10200	250	50	ug/l	
100-41-4	Ethylbenzene	1780	250	70	ug/l	
1330-20-7	Xylene (total)	9590	750	170	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2900	250	50	ug/l	
91-20-3	Naphthalene	520	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	934	250	60	ug/l	
108-20-3	Di-Isopropyl ether	ND	250	57	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	13000	950	ug/l	
64-17-5	Ethyl Alcohol	ND	25000	5800	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	50	ug/l	
75-85-4	Tert-Amyl Alcohol	45200	5000	1900	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	500	55	ug/l	
75-65-0	Tert-Butyl Alcohol	28500	5000	2200	ug/l	
762-75-4	Tert-Butyl Formate	ND	5000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-1		
Lab Sample ID:	FA20177-20	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79336.D	200	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	123	3.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-1		
Lab Sample ID:	FA20177-20	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.5	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-2		
Lab Sample ID:	FA20177-21	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961802.D	1	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-2		
Lab Sample ID:	FA20177-21	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79258.D	1	12/02/14	NG	12/01/14	OP54083	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [b]	0.046	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-137%

(a) All hits confirmed by dual column analysis.
(b) Quantitation between primary and confirmation differed by > 40%. Lower value reported.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-2		
Lab Sample ID:	FA20177-21	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	106	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-3		
Lab Sample ID:	FA20177-22	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961803.D	1	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-3		
Lab Sample ID:	FA20177-22	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79259.D	1	12/02/14	NG	12/01/14	OP54083	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	37.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [b]	0.028	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	71%		63-137%

(a) All hits confirmed by dual column analysis.
(b) Quantitation between primary and confirmation differed by > 40%. Lower value reported.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-3		
Lab Sample ID:	FA20177-22	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	49.4	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-4		
Lab Sample ID:	FA20177-23	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961804.D	1	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-4		
Lab Sample ID:	FA20177-23	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79260.D	1	12/02/14	NG	12/01/14	OP54083	GDD2356
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [b]	0.020	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	72%		63-137%

(a) All hits confirmed by dual column analysis.
(b) Quantitation between primary and confirmation differed by > 40%. Lower value reported.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-4		
Lab Sample ID:	FA20177-23	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	48.9	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-5		
Lab Sample ID:	FA20177-24	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961805.D	1	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 MW-5		
Lab Sample ID:	FA20177-24	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79250.D	1	12/02/14	NG	12/01/14	OP54083	GDD2355
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	02261 MW-5		
Lab Sample ID:	FA20177-24	**Date Sampled:**	11/18/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-4		
Lab Sample ID:	FA20177-25	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961806.D	100	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9700	100	24	ug/l	
108-88-3	Toluene	168	100	20	ug/l	
100-41-4	Ethylbenzene	698	100	28	ug/l	
1330-20-7	Xylene (total)	720	300	66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1870	100	20	ug/l	
91-20-3	Naphthalene	214	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	415	100	24	ug/l	
108-20-3	Di-Isopropyl ether	ND	100	23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	380	ug/l	
64-17-5	Ethyl Alcohol	ND	10000	2300	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	20	ug/l	
75-85-4	Tert-Amyl Alcohol	12400	2000	740	ug/l	
994-05-8	Tert-Amyl Methyl Ether	65.1	200	22	ug/l	J
75-65-0	Tert-Butyl Alcohol	2580	2000	880	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	400	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-4		
Lab Sample ID:	FA20177-25	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79337.D	5	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	1.9	0.095	0.048	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-4		
Lab Sample ID:	FA20177-25	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	66.4	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-5		
Lab Sample ID:	FA20177-26	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961807.D	50	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3240	50	12	ug/l	
108-88-3	Toluene	654	50	10	ug/l	
100-41-4	Ethylbenzene	1670	50	14	ug/l	
1330-20-7	Xylene (total)	5840	150	33	ug/l	
1634-04-4	Methyl Tert Butyl Ether	65.4	50	10	ug/l	
91-20-3	Naphthalene	577	250	50	ug/l	
107-06-2	1,2-Dichloroethane	53.0	50	12	ug/l	
108-20-3	Di-Isopropyl ether	ND	50	11	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	2500	190	ug/l	
64-17-5	Ethyl Alcohol	ND	5000	1200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	100	10	ug/l	
75-85-4	Tert-Amyl Alcohol	9690	1000	370	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	100	11	ug/l	
75-65-0	Tert-Butyl Alcohol	892	1000	440	ug/l	J
762-75-4	Tert-Butyl Formate	ND	1000	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-5		
Lab Sample ID:	FA20177-26	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79338.D	20	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	3.5	0.38	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 TW-5		
Lab Sample ID:	FA20177-26	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	70.8	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA20177-27	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961808.D	250	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	22100	250	61	ug/l	
108-88-3	Toluene	10400	250	50	ug/l	
100-41-4	Ethylbenzene	1640	250	70	ug/l	
1330-20-7	Xylene (total)	9020	750	170	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2640	250	50	ug/l	
91-20-3	Naphthalene	665	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	873	250	60	ug/l	
108-20-3	Di-Isopropyl ether	ND	250	57	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	13000	950	ug/l	
64-17-5	Ethyl Alcohol	ND	25000	5800	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	50	ug/l	
75-85-4	Tert-Amyl Alcohol	41000	5000	1900	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	500	55	ug/l	
75-65-0	Tert-Butyl Alcohol	26000	5000	2200	ug/l	
762-75-4	Tert-Butyl Formate	ND	5000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA20177-27	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79339.D	250	12/03/14	NG	12/02/14	OP54099	GDD2357
Run #2							

	Initial Volume	Final Volume
Run #1	37.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	138	4.7	2.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP A		
Lab Sample ID:	FA20177-27	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	56.3	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP B		
Lab Sample ID:	FA20177-28	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961809.D	200	11/25/14	MM	n/a	n/a	VJ4827
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	11500	200	49	ug/l	
108-88-3	Toluene	19300	200	40	ug/l	
100-41-4	Ethylbenzene	1710	200	56	ug/l	
1330-20-7	Xylene (total)	9230	600	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	213	200	40	ug/l	
91-20-3	Naphthalene	461	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	261	200	48	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	45	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	760	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	4600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	40	ug/l	
75-85-4	Tert-Amyl Alcohol	21900	4000	1500	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	44	ug/l	
75-65-0	Tert-Butyl Alcohol	2220	4000	1800	ug/l	J
762-75-4	Tert-Butyl Formate	ND	4000	810	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP B		
Lab Sample ID:	FA20177-28	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79392.D	200	12/04/14	NG	12/02/14	OP54100	GDD2358
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	121	3.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) Sample analyzed beyond hold time; reported results are considered minimum values. All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 DUP B		
Lab Sample ID:	FA20177-28	**Date Sampled:**	11/19/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	7.5	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FIELD BLANK		
Lab Sample ID:	FA20177-29	**Date Sampled:**	11/19/14
Matrix:	AQ - Field Blank Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961769.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FIELD BLANK		
Lab Sample ID:	FA20177-29	**Date Sampled:**	11/19/14
Matrix:	AQ - Field Blank Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD79394.D	1	12/04/14	NG	12/02/14	OP54100	GDD2358
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	72%		63-137%

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 FIELD BLANK		
Lab Sample ID:	FA20177-29	**Date Sampled:**	11/19/14
Matrix:	AQ - Field Blank Water	**Date Received:**	11/21/14
		Percent Solids:	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	11/24/14	11/24/14	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12056
(2) Prep QC Batch: MP28251

RL = Reporting Limit

Report of Analysis

Client Sample ID:	02261 TRIP BLANK		
Lab Sample ID:	FA20177-30	**Date Sampled:**	11/20/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J0961770.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 PW-3		
Lab Sample ID:	FA20177-31	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0961771.D	1	11/24/14	MM	n/a	n/a	VJ4826
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	02261 PW-3		
Lab Sample ID:	FA20177-31	**Date Sampled:**	11/20/14
Matrix:	AQ - Ground Water	**Date Received:**	11/21/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD79395.D	1	12/04/14	NG	12/02/14	OP54100	GDD2358
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	74%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	SW846 8260B	AQ	Certified by SOP MS005
Di-Isopropyl ether	108-20-3	SW846 8260B	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	SW846 8260B	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	SW846 8260B	AQ	Certified by SOP MS005

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA20177 PAGE 1 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: G.R.I.
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball E-mail: sball@gri...
Phone#: 704-845-4010
Sampler(s) Name(s) (Printed): Angela Roach

Project Information

Project Name: Cardinal County Convenience
Street: 1908 Hwy 601 N
City: Pageland State: SC
Project #: UST Permit #: 022601
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCL	MeOH	BENA	NaOH	ZnAc/NaOH	H2SO4	NaHSO4	DI WATER	HNO3	BTEX, MTBE, Naph, 1,2 DCA, Ethanol by 8260	EDD by 2011	Lead by 6010	LAB USE ONLY
1	022601 MW-6	11/19	1521	ADR	GW	6												X	X	X	
2	022601 MW-7	11/20	1051	ADR	GW	6												X	X	X	
3	022601 MW-8	11/20	1035	ADR	GW	6												X	X	X	
4	022601 MW-9	11/20	952	ADR	GW	6												X	X	X	
5	022601 MW-10	11/19	1458	ADR	GW	6												X	X	X	
6	022601 MW-11	11/19	1401	ADR	GW	6												X	X	X	
7	022601 MW-12	11/19	1416	ADR	GW	6												X	X	X	
8	022601 MW-13	11/19	1453	ADR	GW	6												X	X	X	
9	022601 MW-14	11/19	1521	ADR	GW	6												X	X	X	
10	022601 TW-1	11/20	1154	ADR	GW	6												X	X	X	
11	022601 TW-2	11/20	1133	ADR	GW	6												X	X	X	
12	022601 TW-3	11/20	1015	ADR	GW	6												X	X	X	

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

TURNAROUND TIME (Business Days)
Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Labilink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [X] COMMERCIAL "B" (RESULTS + QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [X] EDD'S

ACCUTEST 2828 QUEEN CITY DR CLT NC 28208

Comments / Remarks

SCDHEC UST mgt Program
2 coolers

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	11/20/14	2 Fedex	3 FX	11-21-14	4 Jacqui (Aire) 10:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 2 Cooler Temperature (s) Celsius: 3-2 3.6

4.2 4

FA20177: Chain of Custody
Page 1 of 5

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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www.accutest.com

Accutest JOB # FA20177 PAGE 2 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: G.R.I.
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Paul E-mail: wsb@gri.com
Phone#: 704-845-4010
Sampler(s) Name(s) (Printed): Angela Roach

Project Information

Project Name: Carolina Country Convenience
Street: 1908 Hwy 601 N
City: Pageland State: SC
Project #: UST Permit #: 022601
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	H2SO4	HNO3	NaOH	Methanol	Encore	DI Water	Brck, MBE, NAP, 1,2-DCA, Benzene	EDB by 8011	Lead by 6010	Matrix Code / Lab Use Only
13	18871 MW-10	11/19	1054	ANR	GW	6										X	X	X	
14	18871 MW-20	11/18	1534	ANR	GW	6										X	X	X	
15	18871 MW-20D	11/19	1028	ANR	GW	6										X	X	X	
16	18871 MW-21	11/19	1115	ANR	GW	6										X	X	X	
17	18871 MW-21D	11/19	1211	ANR	GW	6										X	X	X	
18	18871 MW-22	11/19	1236	ANR	GW	6										X	X	X	
19	18871 MW-22D	11/19	1305	ANR	GW	6										X	X	X	
20	022601 MW-1	11/19	1134	ANR	GW	6										X	X	X	
21	022601 MW-2	11/18	1150	ANR	GW	6										X	X	X	
22	022601 MW-3	11/18	1123	ANR	GW	6										X	X	X	
23	022601 MW-4	11/19	1053	ANR	GW	6										X	X	X	
24	022601 MW-5	11/18	1021	ANR	GW	6										X	X	X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [X] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [X] EDD'S

ACCUTEST
2828-C QUEEN CITY DR
CLT NC 28203

Comments / Remarks

SCDHEC UST Mgt Program

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	11/20/14 1730	FedEx	3 FX	11-21-14	4 Cooper (ATL) 10:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.2 4

FA20177: Chain of Custody
Page 2 of 5

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA20177 PAGE 3 OF 5

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: G.R.I.
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball E-mail: sball@grigroup...
Phone#: 704-845-4010
Sampler(s) Name(s) (Printed): Angela Roach

Project Information

Project Name: Carolina Country Convenience
Street: 1208 Hwy 601 N
City: Pageland State: SC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection: DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	Container Information	BTEX, MTBE, NAPH by 8260	8260 by Soil	Lead by 6010	Matrix Codes
25	022601 TW-4	11/19	1514	ADR	GW	6		X	X	X	
26	022601 TW-5	11/19	1457	ADR	GW	6		X	X	X	
27	022601 DUP A	11/19	—	ADR	GW	6		X	X	X	
28	022601 DUP B	11/19	—	ADR	GW	6		X	X	X	
29	022601 Field Blank	11/19	1534	ADR	—	6		X	X	X	
30	022601 Trip Blank	11/20	—	—	—	2		X	[illegible]		
31	022601 PW-3	11/20	1216	ADR	GW	5		X	X		

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipes

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [X] COMMERCIAL "B" (RESULTS + QC)
- [ ] REDT (EDD FORMAT)
- [ ] FULT1 (EPA LEVEL 1)
- [X] EDD'S

ACCUTEST
2225-C QUEEN CITY DR
CLT NC 28203

Comments / Remarks

SCDHEC UST Mgt Program

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by: 3	Date Time:	Received By: 4
[signature]	11/20/14 1730	Fedex	FX	11-21-14	J. Cone @ 10:15
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.2 4

FA20177: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 20177 CLIENT: BAI PROJECT: CAROLINA COUNTRY

DATE/TIME RECEIVED: 11-21-14 1000 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8043 9730 0121

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.8 3.2
- [ ] CORRECTED TEMPS: 3.2 3.6

SAMPLE INFORMATION

- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: RECEIVED 2 VIALS (EDD) PER SAMPLER

TECHNICIAN SIGNATURE/DATE: 11-21-14 REVIEWER SIGNATURE/DATE: 11-21-14

NF 10/14 receipt confirmation 102914.xls

4.2 4

FA20177: Chain of Custody
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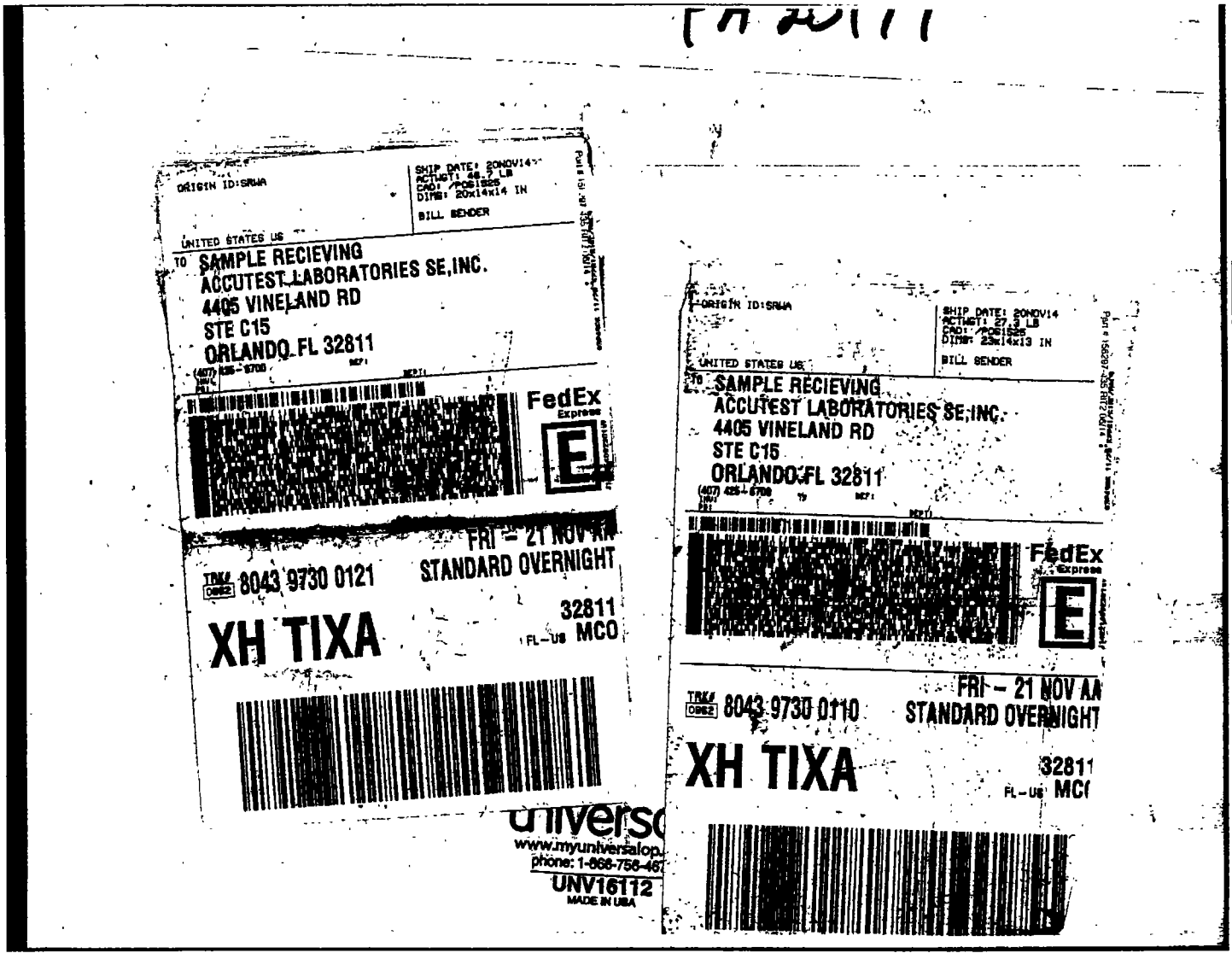

FA20177: Chain of Custody
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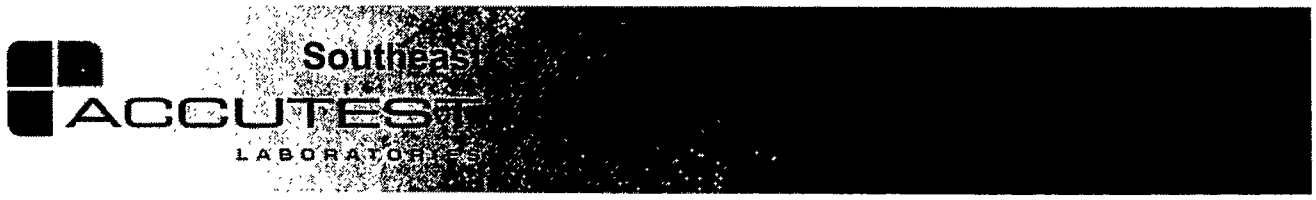


GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4826-MB	J0961768.D	1	11/24/14	MM	n/a	n/a	VJ4826

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-9, FA20177-10, FA20177-11, FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-29, FA20177-30, FA20177-31

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	108%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Method Blank Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4827-MB	J0961798.D	1	11/25/14	MM	n/a	n/a	VJ4827

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	108%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

Method Blank Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4828-MB	J0961829.D	1	11/26/14	MM	n/a	n/a	VJ4828

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-7, FA20177-8, FA20177-16, FA20177-17, FA20177-19

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	108%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Blank Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4826-BS	J0961766.D	1	11/24/14	MM	n/a	n/a	VJ4826

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-9, FA20177-10, FA20177-11, FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-29, FA20177-30, FA20177-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.5	98	81-122
107-06-2	1,2-Dichloroethane	25	23.7	95	75-125
108-20-3	Di-Isopropyl ether	25	24.6	98	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1090	87	55-126
100-41-4	Ethylbenzene	25	24.1	96	81-121
64-17-5	Ethyl Alcohol	500	640	128	46-145
637-92-3	Ethyl Tert Butyl Ether	25	25.2	101	71-120
1634-04-4	Methyl Tert Butyl Ether	25	24.3	97	72-117
91-20-3	Naphthalene	25	24.2	97	63-132
75-85-4	Tert-Amyl Alcohol	250	260	104	65-124
994-05-8	Tert-Amyl Methyl Ether	25	24.1	96	73-122
75-65-0	Tert-Butyl Alcohol	250	228	91	63-129
762-75-4	Tert-Butyl Formate	250	213	85	46-130
108-88-3	Toluene	25	24.1	96	80-120
1330-20-7	Xylene (total)	75	79.3	106	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4827-BS	J0961796.D	1	11/25/14	MM	n/a	n/a	VJ4827

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.9	96	81-122
107-06-2	1,2-Dichloroethane	25	22.6	90	75-125
108-20-3	Di-Isopropyl ether	25	23.4	94	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	964	77	55-126
100-41-4	Ethylbenzene	25	24.1	96	81-121
64-17-5	Ethyl Alcohol	500	585	117	46-145
637-92-3	Ethyl Tert Butyl Ether	25	24.2	97	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.9	96	72-117
91-20-3	Naphthalene	25	24.6	98	63-132
75-85-4	Tert-Amyl Alcohol	250	253	101	65-124
994-05-8	Tert-Amyl Methyl Ether	25	24.1	96	73-122
75-65-0	Tert-Butyl Alcohol	250	209	84	63-129
762-75-4	Tert-Butyl Formate	250	275	110	46-130
108-88-3	Toluene	25	24.6	98	80-120
1330-20-7	Xylene (total)	75	79.4	106	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4828-BS	J0961827.D	1	11/26/14	MM	n/a	n/a	VJ4828

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-7, FA20177-8, FA20177-16, FA20177-17, FA20177-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.1	96	81-122
107-06-2	1,2-Dichloroethane	25	23.2	93	75-125
108-20-3	Di-Isopropyl ether	25	23.3	93	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1050	84	55-126
100-41-4	Ethylbenzene	25	23.5	94	81-121
64-17-5	Ethyl Alcohol	500	569	114	46-145
637-92-3	Ethyl Tert Butyl Ether	25	23.6	94	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.2	93	72-117
91-20-3	Naphthalene	25	23.3	93	63-132
75-85-4	Tert-Amyl Alcohol	250	255	102	65-124
994-05-8	Tert-Amyl Methyl Ether	25	22.6	90	73-122
75-65-0	Tert-Butyl Alcohol	250	217	87	63-129
762-75-4	Tert-Butyl Formate	250	265	106	46-130
108-88-3	Toluene	25	23.6	94	80-120
1330-20-7	Xylene (total)	75	77.4	103	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20177-1MS	J0961789.D	1	11/24/14	MM	n/a	n/a	VJ4826
FA20177-1MSD	J0961790.D	1	11/24/14	MM	n/a	n/a	VJ4826
FA20177-1	J0961772.D	1	11/24/14	MM	n/a	n/a	VJ4826

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-9, FA20177-10, FA20177-11, FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-29, FA20177-30, FA20177-31

CAS No.	Compound	FA20177-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	25.6	102	25	24.8	99	3	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	23.1	92	25	23.0	92	0	75-125/14
108-20-3	Di-Isopropyl ether	ND		25	23.3	93	25	23.6	94	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	959	77	1250	992	79	3	55-126/17
100-41-4	Ethylbenzene	ND		25	24.5	98	25	23.8	95	3	81-121/14
64-17-5	Ethyl Alcohol	ND		500	539	108	500	570	114	6	46-145/30
637-92-3	Ethyl Tert Butyl Ether	ND		25	24.6	98	25	25.0	100	2	71-120/14
1634-04-4	Methyl Tert Butyl Ether	0.67	J	25	26.2	102	25	26.0	101	1	72-117/14
91-20-3	Naphthalene	ND		25	52.4	210*	25	27.0	108	64*	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	431	172*	250	234	94	59*	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	24.5	98	25	24.1	96	2	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	498	199*	250	316	126	45*	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	35.4	14*	250	28.8	12*	21	46-130/33
108-88-3	Toluene	ND		25	28.5	114	25	26.3	105	8	80-120/14
1330-20-7	Xylene (total)	ND		75	83.1	111	75	80.0	107	4	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA20177-1	Limits
1868-53-7	Dibromofluoromethane	102%	101%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	96%	100%	79-125%
2037-26-5	Toluene-D8	104%	105%	107%	85-112%
460-00-4	4-Bromofluorobenzene	103%	103%	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20177-22MS	J0961819.D	1	11/25/14	MM	n/a	n/a	VJ4827
FA20177-22MSD	J0961820.D	1	11/25/14	MM	n/a	n/a	VJ4827
FA20177-22	J0961803.D	1	11/25/14	MM	n/a	n/a	VJ4827

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28

CAS No.	Compound	FA20177-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	25.4	102	25	24.1	96	5	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	24.6	98	25	24.0	96	2	75-125/14
108-20-3	Di-Isopropyl ether	ND		25	24.9	100	25	24.7	99	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1010	81	1250	1080	86	7	55-126/17
100-41-4	Ethylbenzene	ND		25	24.4	98	25	23.4	94	4	81-121/14
64-17-5	Ethyl Alcohol	ND		500	602	120	500	634	127	5	46-145/30
637-92-3	Ethyl Tert Butyl Ether	ND		25	25.0	100	25	24.9	100	0	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.4	98	25	24.8	99	2	72-117/14
91-20-3	Naphthalene	ND		25	18.6	74	25	21.6	86	15	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	210	84	250	230	92	9	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	23.6	94	25	24.2	97	3	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	314	126	250	340	136*	8	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	56.2	22*	250	47.3	19*	17	46-130/33
108-88-3	Toluene	ND		25	23.9	96	25	23.4	94	2	80-120/14
1330-20-7	Xylene (total)	ND		75	79.8	106	75	76.2	102	5	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA20177-22	Limits
1868-53-7	Dibromofluoromethane	104%	104%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	101%	79-125%
2037-26-5	Toluene-D8	104%	104%	106%	85-112%
460-00-4	4-Bromofluorobenzene	99%	99%	103%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20177-8MS	J0961850.D	100	11/26/14	MM	n/a	n/a	VJ4828
FA20177-8MSD	J0961851.D	100	11/26/14	MM	n/a	n/a	VJ4828
FA20177-8	J0961835.D	100	11/26/14	MM	n/a	n/a	VJ4828

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20177-7, FA20177-8, FA20177-16, FA20177-17, FA20177-19

CAS No.	Compound	FA20177-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4600		2500	6810	88	2500	6670	83	2	81-122/14
107-06-2	1,2-Dichloroethane	45.3	J	2500	2310	91	2500	2240	88	3	75-125/14
108-20-3	Di-Isopropyl ether	ND		2500	2410	96	2500	2350	94	3	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		125000	102000	82	125000	99400	80	3	55-126/17
100-41-4	Ethylbenzene	1930		2500	4270	94	2500	4170	90	2	81-121/14
64-17-5	Ethyl Alcohol	ND		50000	59600	119	50000	65200	130	9	46-145/30
637-92-3	Ethyl Tert Butyl Ether	ND		2500	2440	98	2500	2390	96	2	71-120/14
1634-04-4	Methyl Tert Butyl Ether	40.7	J	2500	2400	94	2500	2340	92	3	72-117/14
91-20-3	Naphthalene	561		2500	2440	75	2500	2630	83	7	63-132/25
75-85-4	Tert-Amyl Alcohol	9820		25000	33100	93	25000	33500	95	1	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		2500	2320	93	2500	2330	93	0	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		25000	23000	92	25000	21800	87	5	63-129/27
762-75-4	Tert-Butyl Formate	ND		25000	26000	104	25000	25900	104	0	46-130/33
108-88-3	Toluene	478		2500	2850	95	2500	2810	93	1	80-120/14
1330-20-7	Xylene (total)	6420		7500	14000	101	7500	13800	98	1	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA20177-8	Limits
1868-53-7	Dibromofluoromethane	102%	100%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	98%	79-125%
2037-26-5	Toluene-D8	103%	104%	106%	85-112%
460-00-4	4-Bromofluorobenzene	101%	104%	101%	83-118%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54083-MB	DD79224.D	1	12/01/14	NG	12/01/14	OP54083	GDD2355

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-1, FA20177-5, FA20177-14, FA20177-21, FA20177-22, FA20177-23, FA20177-24

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	88%	63-137%

Method Blank Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54099-MB	DD79263.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-2, FA20177-3, FA20177-4, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11, FA20177-12, FA20177-13, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-25, FA20177-26, FA20177-27

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	82%	63-137%

Method Blank Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54100-MB	DD79391.D	1	12/04/14	NG	12/02/14	OP54100	GDD2358

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-28, FA20177-29, FA20177-31

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	91%	63-137%

Blank Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54083-BS	DD79222.D	1	12/01/14	NG	12/01/14	OP54083	GDD2355

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-1, FA20177-5, FA20177-14, FA20177-21, FA20177-22, FA20177-23, FA20177-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.21	84	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	86%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54083-BS2	DD79223.D	1	12/01/14	NG	12/01/14	OP54083	GDD2355

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-1, FA20177-5, FA20177-14, FA20177-21, FA20177-22, FA20177-23, FA20177-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.22	88	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54099-BS	DD79261.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-2, FA20177-3, FA20177-4, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11, FA20177-12, FA20177-13, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-25, FA20177-26, FA20177-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.22	88	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	86%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54099-BS2	DD79262.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-2, FA20177-3, FA20177-4, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11, FA20177-12, FA20177-13, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-25, FA20177-26, FA20177-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.23	92	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	88%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54100-BS	DD79390.D	1	12/04/14	NG	12/02/14	OP54100	GDD2358

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-28, FA20177-29, FA20177-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.26	104	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	91%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54099-MS	DD79265.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356
FA20177-2	DD79264.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-2, FA20177-3, FA20177-4, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11, FA20177-12, FA20177-13, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-25, FA20177-26, FA20177-27

CAS No.	Compound	FA20177-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	ND		0.239	0.20	84	72-134

CAS No.	Surrogate Recoveries	MS	FA20177-2	Limits
460-00-4	4-Bromofluorobenzene	82%	78%	63-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54083-MS	DD79226.D	1	12/01/14	NG	12/01/14	OP54083	GDD2355
OP54083-MSD	DD79227.D	1	12/01/14	NG	12/01/14	OP54083	GDD2355
FA20205-1	DD79225.D	1	12/01/14	NG	12/01/14	OP54083	GDD2355

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-1, FA20177-5, FA20177-14, FA20177-21, FA20177-22, FA20177-23, FA20177-24

CAS No.	Compound	FA20205-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-93-4	1,2-Dibromoethane	0.019	U	0.24	0.20	83	0.236	0.21	89	5	72-134/28

CAS No.	Surrogate Recoveries	MS	MSD	FA20205-1	Limits
460-00-4	4-Bromofluorobenzene	89%	91%	72%	63-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54100-MS	DD79398.D	1	12/04/14	NG	12/02/14	OP54100	GDD2358
OP54100-MSD	DD79399.D	1	12/04/14	NG	12/02/14	OP54100	GDD2358
FA20234-2	DD79397.D	1	12/04/14	NG	12/02/14	OP54100	GDD2358
FA20234-2 [a]	DD79414.D	1	12/05/14	NG	12/02/14	OP54100	GDD2359

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-28, FA20177-29, FA20177-31

CAS No.	Compound	FA20234-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-93-4	1,2-Dibromoethane	0.019	U	0.239	0.26	109	0.239	0.25	105	4	72-134/28

CAS No.	Surrogate Recoveries	MS	MSD	FA20234-2	FA20234-2	Limits
460-00-4	4-Bromofluorobenzene	86%	86%	57%*	61%*	63-137%

(a) Confirmation run for surrogate recoveries.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA20177
Account: GRINCC GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54099-DUP	DD79269.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356
FA20177-3	DD79268.D	1	12/02/14	NG	12/02/14	OP54099	GDD2356

The QC reported here applies to the following samples: **Method:** SW846 8011

FA20177-2, FA20177-3, FA20177-4, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11, FA20177-12, FA20177-13, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-25, FA20177-26, FA20177-27

CAS No.	Compound	FA20177-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	ND		ND		nc	28

CAS No.	Surrogate Recoveries	DUP	FA20177-3	Limits
460-00-4	4-Bromofluorobenzene	68%	74%	63-137%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28250
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15		
Antimony	6.0	2	2.3		
Arsenic	10	2	2.4		
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5		
Calcium	1000	50	50		
Chromium	10	1	2		
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	17	17		
Lead	5.0	1.1	1.1	0.90	<5.0
Magnesium	5000	50	56		
Manganese	15	.5	1		
Molybdenum	50	.5	.5		
Nickel	40	.5	.5		
Potassium	10000	200	200		
Selenium	10	2.3	2.3		
Silver	10	.65	.77		
Sodium	10000	500	500		
Strontium	10	.4	.4		
Thallium	10	1.5	2		
Tin	50	.7	1		
Titanium	10	.9	1		
Vanadium	50	.5	.5		
Zinc	20	3	3		

Associated samples MP28250: FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28250
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			11/24/14				11/24/14		
Metal	FA19997-2F Original	DUP	RPD	QC Limits	FA19997-2F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	502	500	100.4	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28250: FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28250
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	FA19997-2F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.0	502	500	100.4	0.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28250: FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28250
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	504	500	100.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28250: FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28250
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	FA19997-2F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28250: FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28250
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	Sample ml	Final ml	FA19997-2F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10			48.6	0.2	2.5	50	97.2	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28250: FA20177-1, FA20177-2, FA20177-3, FA20177-4, FA20177-5, FA20177-6, FA20177-7, FA20177-8, FA20177-9, FA20177-10, FA20177-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	15	15		
Antimony	6.0	2	2.3		
Arsenic	10	2	2.4		
Barium	200	1	1		
Beryllium	4.0	.5	.5		
Cadmium	5.0	.5	.5		
Calcium	1000	50	50		
Chromium	10	1	2		
Cobalt	50	.5	.5		
Copper	25	1	1		
Iron	300	17	17		
Lead	5.0	1.1	1.1	0.20	<5.0
Magnesium	5000	50	56		
Manganese	15	.5	1		
Molybdenum	50	.5	.5		
Nickel	40	.5	.5		
Potassium	10000	200	200		
Selenium	10	2.3	2.3		
Silver	10	.65	.77		
Sodium	10000	500	500		
Strontium	10	.4	.4		
Thallium	10	1.5	2		
Tin	50	.7	1		
Titanium	10	.9	1		
Vanadium	50	.5	.5		
Zinc	20	3	3		

Associated samples MP28251: FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28, FA20177-29

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			11/24/14				11/24/14		
Metal	FA19997-13F Original	DUP	RPD	QC Limits	FA19997-13F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	496	500	99.2	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP28251: FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28, FA20177-29

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

7.2.2

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	FA19997-13F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.0	495	500	99.0	0.2	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP28251: FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28, FA20177-29

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	491	500	98.2	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28251: FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28, FA20177-29

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	FA19997-13F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28251: FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28, FA20177-29

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FA20177
Account: GRINCC - GRI (Geological Resources Inc.)
Project: Carolina Country Convenience; 1908 Hwy 601 N, Pageland, SC

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/24/14

Metal	Sample ml	Final ml	FA19997-13F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10			49.5	0.2	2.5	50	99.0	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28251: FA20177-12, FA20177-13, FA20177-14, FA20177-15, FA20177-16, FA20177-17, FA20177-18, FA20177-19, FA20177-20, FA20177-21, FA20177-22, FA20177-23, FA20177-24, FA20177-25, FA20177-26, FA20177-27, FA20177-28, FA20177-29

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

APPENDIX L
Ground Water Sampling Data Sheets

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody YSI: 13B1CC013 Hanna: 08897525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 18871 Monitoring Well #: MW-10
Well Diameter (D): 2" 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	19.70	feet
Total Well Depth (TWD)	34.83	feet
Length of the water column (LWC = TWD-DGW)	15.13	feet

1 casing volume (CV = LWC X C) = 2.47
3 casing volume 3 X CV = 7.40 gals (standard purge volume)

Total volume of Water Purged Before Sampling 4.94 gals
Total volume of Water Purged for Post Sampling 0 gals
4.94 Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	2.47	4.94					
Time (military)	1031	1039	1048					1049
pH (s.u.)	5.67	5.35	5.50					
Specific Cond. (umhos/cm)	67	72	86					
Water Temperature (degrees C)	15.48	15.97	16.46					
Turbidity (subjective: clear, slightly cloudy, cloudy)	270	170	400					
Dissolved Oxygen (mg/l)	1.22	1.53	1.39					
PID readings, if required								

Remarks:

Dry @ 2 Volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/18/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B100013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 18871 Monitoring Well #: MW-20
Well Diameter (D): 2" 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	~~0~~	feet
Depth to Ground Water (DGW)	23.18	feet
Total Well Depth (TWD)	35.10	feet
Length of the water column (LWC = TWD-DGW)	11.92	feet
1 casing volume (CV = LWC X C) =	1.94	
3 casing volume 3 X CV =	5.83	gals (standard purge volume)
Total volume of Water Purged Before Sampling	4.85	gals
Total volume of Water Purged for Post Sampling	0	gals
	4.85	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.94	3.88					
Time (military)	1528	1534	1541					1544
pH (s.u.)	5.25	5.27	5.48					
Specific Cond. (umhos/cm)	79	70	84					
Water Temperature (degrees C)	16.79	17.91	17.30					
Turbidity (subjective: clear, slightly cloudy, cloudy)	5.10	750	>1000					
Dissolved Oxygen (mg/l)	1.48	1.12	1.17					
PID readings, if required								

Remarks:
Dry @ 2.5 volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy):
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no.
pH=4.0 Standard
pH=7.0 Standard
pH=10.0 Standard

Conductivity Meter serial no.

Chain of Custody: Ysi: 13B1000013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID # 18871 Monitoring Well # MW-20D
Well Diameter (D): 2" 0.167 foot

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	foot
Depth to Ground Water (DGW)	27.53	foot
Total Well Depth (TWD)	59.51	feet
Length of the water column (LWC = TWD-DGW)	31.98	foot
1 casing volume (CV = LWC X C) =	5.21	
3 casing volume 3 X CV =	15.63	gals (standard purge volume)
Total volume of Water Purged Before Sampling	5.21	gals
Total volume of Water Purged for Post Sampling	0	gals
	5.21	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	5.21	10.42					
Time (military)	1016	1026						1028
pH (s.u.)	6.49	6.11						
Specific Cond. (umhos/cm)	92	81						
Water Temperature (degrees C)	14.92	16.29						
Turbidity (subjective: clear, slightly cloudy, cloudy)	5.00	>1000						
Dissolved Oxygen (mg/l)	3.84	2.74						
PID readings, if required								

Remarks:

Dry @ 1 Volume

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no.
pH=4.0 Standard
pH=7.0 Standard
pH=10.0 Standard

Conductivity Meter serial no.
Standard
Standard

Chain of Custody: YSI: 13B100013 Hanna: 08597525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID # 18871 Monitoring Well # MW-21
Well Diameter (D): 2" 0.167 foot
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~~ foot
Depth to Ground Water (DGW) 21.56 foot
Total Well Depth (TWD) 34.63 feet
Length of the water column (LWC = TWD-DGW) 13.07 foot

1 casing volume (CV = LWC X C) = 2.13
3 casing volume 3 X CV = 6.39 gals (standard purge volume)

Total volume of Water Purged Before Sampling 4.26 gals
Total volume of Water Purged for Post Sampling ~~0~~ gals
4.26 Total Purged
*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	2.13	4.26					
Time (military)	1101	1108	1114					1115
pH (s.u.)	5.41	5.35	5.36					
Specific Cond. (umhos/cm)	179	207	234					
Water Temperature (degrees C)	17.07	18.36	17.99					
Turbidity (subjective: clear, slightly cloudy, cloudy)	33.0	750	>1000					
Dissolved Oxygen (mg/l)	0.86	1.45	1.21					
PID readings, if required								

Remarks:

Dry @ 2 Volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/9/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B100013 Hanna: 08597525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID # 18871 Monitoring Well # MW-2D
Well Diameter (D): 2" 0.167 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:	-0-	feet
Depth to Ground Water (DGW)	18.68	feet
Total Well Depth (TWD)	60.20	feet
Length of the water column (LWC = TWD-DGW)	41.52	feet
1 casing volume (CV = LWC X C) =	6.76	
3 casing volume 3 X CV =	20.30	gals (standard purge volume)
Total volume of Water Purged Before Sampling	6.76	gals
Total volume of Water Purged for Post Sampling	-0-	gals
	6.76	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	6.76						
Time (military)	1143	1210						1211
pH (s.u.)	12.06	12.07						
Specific Cond. (umhos/cm)	2037	2157						
Water Temperature (degrees C)	16.43	17.37						
Turbidity (subjective: clear, slightly cloudy, cloudy)	10.0	65.0						
Dissolved Oxygen (mg/l)	2.02	3.06						
PID readings, if required								

Remarks:

Dry @ 1 volume

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B1CC013 Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 18871 Monitoring Well #: MW-22
Well Diameter (D): 2" 0.167 foot
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	foot
Depth to Ground Water (DGW)	23.16	feet
Total Well Depth (TWD)	34.94	feet
Length of the water column (LWC = TWD-DGW)	11.78	foot
1 casing volume (CV = LWC X C) =	1.92	
3 casing volume 3 X CV =	5.76	gals (standard purge volume)
Total volume of Water Purged Before Sampling	3.84	gals
Total volume of Water Purged for Post Sampling	0	gals
	3.84	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.92	3.84					
Time (military)	1219	1228	1235					1236
pH (s.u.)	6.09	5.90	5.63					
Specific Cond. (umhos/cm)	131	85	86					
Water Temperature (degrees C)	17.10	18.26	18.15					
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.10	120	450					
Dissolved Oxygen (mg/l)	0.91	1.69	1.42					
PID readings, if required								

Remarks:

Dry @ 2 volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no.
pH=4.0 Standard
pH=7.0 Standard
pH=10.0 Standard

Conductivity Meter serial no.

Chain of Custody Ysi: 13B1CC013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID # 18871 Monitoring Well # MW-22D
Well Diameter (D): 2" 0.167 foot
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	foot
Depth to Ground Water (DGW)	23.81	feet
Total Well Depth (TWD)	60.90	feet
Length of the water column (LWC = TWD-DGW)	37.09	feet
1 casing volume (CV = LWC X C) =	6.05	
3 casing volume 3 X CV =	18.15	gals (standard purge volume)
Total volume of Water Purged Before Sampling	12.09	gals
Total volume of Water Purged for Post Sampling	0	gals
	12.09	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	6.05						
Time (military)	1242	1253						1305
pH (s.u.)	6.49	6.27						
Specific Cond. (umhos/cm)	118	117						
Water Temperature (degrees C)	16.84	17.48						
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.70	2600						
Dissolved Oxygen (mg/l)	1.39	1.89						
PID readings, if required								

Remarks:
Dry @ 2 volumes
Not enough for readings

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B1000013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: MW-1
Well Diameter (D): 2" 0.167 foot
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	foot
Depth to Ground Water (DGW)	23.88	foot
Total Well Depth (TWD)	35.27	feet
Length of the water column (LWC = TWD-DGW)	11.39	feet
1 casing volume (CV = LWC X C) =	1.86	
3 casing volume 3 X CV =	5.57	gals (standard purge volume)
Total volume of Water Purged Before Sampling	3.72	gals
Total volume of Water Purged for Post Sampling	0	gals
	3.72	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.86						
Time (military)	1119	1127						1134
pH (s.u.)	5.09	5.05						
Specific Cond. (umhos/cm)	66	66						
Water Temperature (degrees C)	17.08	17.83						
Turbidity (subjective: clear, slightly cloudy, cloudy)	>1000	>1000						
Dissolved Oxygen (mg/l)	1.66	0.99						
PID readings, if required								

Remarks:
Dry @ 2 volumes
Not enough for readings

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/18/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
_____ Standard
_____ Standard

Chain of Custody Ysi: 13B100013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # MW-2
Well Diameter (D): 2" 0.167 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:	~~0~~	feet
Depth to Ground Water (DGW)	29.17	feet
Total Well Depth (TWD)	41.85	feet
Length of the water column (LWC = TWD-DGW)	12.68	feet
1 casing volume (CV = LWC X C) =	2.07	
3 casing volume 3 X CV =	6.20	gals (standard purge volume)
Total volume of Water Purged Before Sampling	5.18	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	5.18	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	2.07	4.14					
Time (military)	1136	1141	1147					1150
pH (s.u.)	6.51	6.50	6.21					
Specific Cond. (umhos/cm)	249	251	199					
Water Temperature (degrees C)	13.39	15.37	16.34					
Turbidity (subjective: clear, slightly cloudy, cloudy)	26.0	>1000	>1000					
Dissolved Oxygen (mg/l)	1.49	1.23	1.02					
PID readings, if required								

Remarks:

Dry @ 2.5 Volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/18/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
Standard _____
Standard _____

Chain of Custody YSI: 13B100013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: MW-3
Well Diameter (D): 2" 0.167 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:	0	feet
Depth to Ground Water (DGW)	25.80	feet
Total Well Depth (TWD)	42.09	feet
Length of the water column (LWC = TWD-DGW)	16.29	feet
1 casing volume (CV = LWC X C) =	2.65	
3 casing volume 3 X CV =	7.95	gals (standard purge volume)
Total volume of Water Purged Before Sampling	5.31	gals
Total volume of Water Purged for Post Sampling	0	gals
	5.31	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	2.65						
Time (military)	1109	1117						1123
pH (s.u.)	5.80	5.69						
Specific Cond. (umhos/cm)	59	54						
Water Temperature (degrees C)	14.70	15.74						
Turbidity (subjective: clear, slightly cloudy, cloudy)	18.0	850						
Dissolved Oxygen (mg/l)	2.93	2.54						
PID readings, if required								

Remarks:
Dry @ 2 Volumes
Not enough H_2O for readings

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/18/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody YSI: 13B100013 Hanna: 08897525

Relinquished by Date/Time Received by Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # MW-4
Well Diameter (D): 2" 0.167 foot
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	27.43	feet
Total Well Depth (TWD)	41.91	feet
Length of the water column (LWC = TWD-DGW)	14.48	feet
1 casing volume (CV = LWC X C) =	2.36	
3 casing volume 3 X CV = 7.08		gals (standard purge volume)
Total volume of Water Purged Before Sampling	2.95	gals
Total volume of Water Purged for Post Sampling	0	gals
	2.95	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	2.36						
Time (military)	1046	1054						1056
pH (s.u.)	5.89	5.84						
Specific Cond. (umhos/cm)	116	102						
Water Temperature (degrees C)	16.71	16.89						
Turbidity (subjective: clear, slightly cloudy, cloudy)	8.50	>1000						
Dissolved Oxygen (mg/l)	2.86	2.55						
PID readings, if required								

Remarks:

Dry @ 1.25 Volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/18/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody YSI: 13B1CC013 Hanna: 08897525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # MW-5
Well Diameter (D): 2" 0.167 foot
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	~~0~~	foot
Depth to Ground Water (DGW)	33.30	foot
Total Well Depth (TWD)	42.02	feet
Length of the water column (LWC = TWD-DGW)	8.72	feet
1 casing volume (CV = LWC X C) =	1.42	
3 casing volume 3 X CV =	4.26	gals (standard purge volume)
Total volume of Water Purged Before Sampling	1.78	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	1.78	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.42						
Time (military)	1027	1033	10					1034
pH (s.u.)	6.19	6.09						
Specific Cond. (umhos/cm)	81	56						
Water Temperature (degrees C)	16.34	17.25						
Turbidity (subjective: clear, slightly cloudy, cloudy)	30.0	100						
Dissolved Oxygen (mg/l)	3.35	3.48						
PID readings, if required								

Remarks:

Dry @ 1.25 volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/18/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B100013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: MW-6
Well Diameter (D): 2" 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	20.86	feet
Total Well Depth (TWD)	34.73	feet
Length of the water column (LWC = TWD-DGW)	13.87	feet
1 casing volume (CV = LWC X C) =	2.26	
3 casing volume 3 X CV =	6.78	gals (standard purge volume)
Total volume of Water Purged Before Sampling	3.96	gals
Total volume of Water Purged for Post Sampling	0	gals
	3.96	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	2.26						
Time (military)	1509	1516						1521
pH (s.u.)	5.76	5.68						
Specific Cond. (umhos/cm)	234	324						
Water Temperature (degrees C)	14.88	15.32						
Turbidity (subjective: clear, slightly cloudy, cloudy)	8.40	110						
Dissolved Oxygen (mg/l)	3.92	3.54						
PID readings, if required								

Remarks:

Dry @ 1.75 Volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/20/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B100013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: MW-7
Well Diameter (D): 2" 0.167 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:	~~0~~	feet
Depth to Ground Water (DGW)	20.60	feet
Total Well Depth (TWD)	33.74	feet
Length of the water column (LWC = TWD-DGW)	13.14	feet
1 casing volume (CV = LWC X C) =	2.14	
3 casing volume 3 X CV =	6.43	gals (standard purge volume)
Total volume of Water Purged Before Sampling	3.21	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	3.21	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	2.14						
Time (military)	1041	1049						1051
pH (s.u.)	6.42	6.28						
Specific Cond. (umhos/cm)	98	90						
Water Temperature (degrees C)	15.31	15.76						
Turbidity (subjective: clear, slightly cloudy, cloudy)	14.0	>1000						
Dissolved Oxygen (mg/l)	1.22	0.88						
PID readings, if required								

Remarks:

Dry @ 1.5 volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/20/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B1000013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 022601 Monitoring Well #: MW-8
Well Diameter (D): 2" 0.167 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:	-0-	feet
Depth to Ground Water (DGW)	20.75	feet
Total Well Depth (TWD)	33.16	feet
Length of the water column (LWC = TWD-DGW)	12.41	feet
1 casing volume (CV = LWC X C) =	2.03	
3 casing volume 3 X CV =	6.07	gals (standard purge volume)
Total volume of Water Purged Before Sampling	2.03	gals
Total volume of Water Purged for Post Sampling	-0-	gals
	2.03	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	2.03						
Time (military)	1019	1031						1033
pH (s.u.)	8.65	8.14						
Specific Cond. (umhos/cm)	59	48						
Water Temperature (degrees C)	15.72	1597						
Turbidity (subjective: clear, slightly cloudy, cloudy)	14.0	200						
Dissolved Oxygen (mg/l)	2.51	2.12						
PID readings, if required								

Remarks:

Dry @ 1 volume

0

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/20/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. ____
pH=4.0 ____ Standard ____
pH=7.0 ____ Standard ____
pH=10.0 ____ Standard ____

Conductivity Meter serial no. ____

Chain of Custody Ysi: 13B100013 Hanna: 08997525

Relinquished by Date/Time Received by Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # MW-9
Well Diameter (D): 2" 0.167 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:	0	feet
Depth to Ground Water (DGW)	25.04	feet
Total Well Depth (TWD)	32.95	feet
Length of the water column (LWC = TWD-DGW)	7.91	feet
1 casing volume (CV = LWC X C) =	1.29	
3 casing volume 3 X CV =	3.87	gals (standard purge volume)
Total volume of Water Purged Before Sampling	2.26	gals
Total volume of Water Purged for Post Sampling	0	gals
	2.26	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.29						
Time (military)	947	950						952
pH (s.u.)	6.49	6.12						
Specific Cond. (umhos/cm)	77	76						
Water Temperature (degrees C)	14.54	16.08						
Turbidity (subjective: clear, slightly cloudy, cloudy)	170	370						
Dissolved Oxygen (mg/l)	3.93	2.47						
PID readings, if required								

Remarks:

Dry @ 1.75 volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/18/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Conductivity Meter serial no. _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Chain of Custody: YSI: 13B1CC013 Hanna: 08897525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: MW-10
Well Diameter (D): 2" 0.167 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:	0	feet
Depth to Ground Water (DGW)	24.02	feet
Total Well Depth (TWD)	35.36	feet
Length of the water column (LWC = TWD-DGW)	11.34	feet
1 casing volume (CV = LWC X C) =	1.85	
3 casing volume 3 X CV =	5.55	gals (standard purge volume)
Total volume of Water Purged Before Sampling	1.85	gals
Total volume of Water Purged for Post Sampling	0	gals
	1.85	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.85						
Time (military)	1448	1455						1458
pH (s.u.)	6.25	5.84						
Specific Cond. (umhos/cm)	150	165						
Water Temperature (degrees C)	15.42	16.29						
Turbidity (subjective: clear, slightly cloudy, cloudy)	31.0	320						
Dissolved Oxygen (mg/l)	4.12	3.81						
PID readings, if required								

Remarks:

Dry @ 1 volume

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no.
pH=4.0 Standard
pH=7.0 Standard
pH=10.0 Standard

Conductivity Meter serial no.

Chain of Custody: Ysi: 13B100013 Hanna: 08597525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # MW-11
Well Diameter (D): 2" 0.167 foot

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	0	foot
Depth to Ground Water (DGW)	24.63	foot
Total Well Depth (TWD)	34.85	feet
Length of the water column (LWC = TWD-DGW)	10.21	foot
1 casing volume (CV = LWC X C) =	1.67	
3 casing volume 3 X CV =	4.99	gals (standard purge volume)
Total volume of Water Purged Before Sampling	1.67	gals
Total volume of Water Purged for Post Sampling	0	gals
	1.67	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.67						
Time (military)	1356	1400						1401
pH (s.u.)	6.09	6.07						
Specific Cond. (umhos/cm)	211	232						
Water Temperature (degrees C)	17.12	17.61						
Turbidity (subjective: clear, slightly cloudy, cloudy)	11.0	240						
Dissolved Oxygen (mg/l)	3.86	3.77						
PID readings, if required								

Remarks:

Dry @ 1 volume

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B1000013 Hanna: 08597525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: mw-12
Well Diameter (D): 2" 0.167 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:	0	foot
Depth to Ground Water (DGW)	26.88	foot
Total Well Depth (TWD)	35.41	feet
Length of the water column (LWC = TWD-DGW)	8.53	feet
1 casing volume (CV = LWC X C) =	1.39	
3 casing volume 3 X CV =	4.17	gals (standard purge volume)
Total volume of Water Purged Before Sampling	2.09	gals
Total volume of Water Purged for Post Sampling	0	gals
	2.09	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.39						
Time (military)	1408	1415						1416
pH (s.u.)	5.72	5.55						
Specific Cond. (umhos/cm)	73	65						
Water Temperature (degrees C)	16.62	17.53						
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.30	220						
Dissolved Oxygen (mg/l)	4.01	3.46						
PID readings, if required								

Remarks:

Dry @ 1.5 Volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter
serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter
serial no. _____
Standard _____
Standard _____
Standard _____

Chain of Custody Ysi: 13B100013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # MW-13
Well Diameter (D): 2" 0.167 foot
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~~	foot
Depth to Ground Water (DGW)	25.53	foot
Total Well Depth (TWD)	35.24	feet
Length of the water column (LWC = TWD-DGW)	9.71	foot
1 casing volume (CV = LWC X C) =	1.58	
3 casing volume 3 X CV =	4.75	gals (standard purge volume)
Total volume of Water Purged Before Sampling	2.77	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	2.77	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.58						
Time (military)	1421	1429						1433
pH (s.u.)	5.71	5.69						
Specific Cond. (umhos/cm)	135	129						
Water Temperature (degrees C)	18.22	18.62						
Turbidity (subjective: clear, slightly cloudy, cloudy)	8.40	>1000						
Dissolved Oxygen (mg/l)	3.24	2.97						
PID readings, if required								

Remarks:

Dry @ 1.75 volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
_____ Standard
_____ Standard

Chain of Custody Ysi: 13B1000013 Hanna: 08597525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # MW-14
Well Diameter (D): 2" 0.167 foot
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	foot
Depth to Ground Water (DGW)	27.80	feet
Total Well Depth (TWD)	35.00	feet
Length of the water column (LWC = TWD-DGW)	7.20	feet
1 casing volume (CV = LWC X C) =	1.17	
3 casing volume 3 X CV =	3.52	gals (standard purge volume)
Total volume of Water Purged Before Sampling	1.17	gals
Total volume of Water Purged for Post Sampling	0	gals
	1.17	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1518							1521
pH (s.u.)	6.67							
Specific Cond. (umhos/cm)	73							
Water Temperature (degrees C)	14.69							
Turbidity (subjective: clear, slightly cloudy, cloudy)	3.80							
Dissolved Oxygen (mg/l)	1.79							
PID readings, if required								

Remarks:
Dry @ 1 volume
Not enough H2O for readings

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/20/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no.
pH=4.0 _____
pH=7.0 _____
pH=10.0 _____

Conductivity Meter serial no.
_____ Standard
_____ Standard
_____ Standard

Chain of Custody: Ysi: 13B100013 Hanna: 08597525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: TW-1
Well Diameter (D): 2" 0.167 foot

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	foot
Depth to Ground Water (DGW)	20.91	foot
Total Well Depth (TWD)	59.49	feet
Length of the water column (LWC = TWD-DGW)	38.58	feet
1 casing volume (CV = LWC X C) =	6.29	
3 casing volume 3 X CV =	18.86	gals (standard purge volume)
Total volume of Water Purged Before Sampling	11.01	gals
Total volume of Water Purged for Post Sampling	0	gals
	11.01	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	6.29						
Time (military)	1132	1148						1154
pH (s.u.)	11.00	11.23						
Specific Cond. (umhos/cm)	3660	395						
Water Temperature (degrees C)	15.10	16.13						
Turbidity (subjective: clear, slightly cloudy, cloudy)	100	220						
Dissolved Oxygen (mg/l)	3.10	2.89						
PID readings, If required								

Remarks:

Dry @ 1.75 Volumes

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/20/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody YSI: 13B100013 Hanna: 08597525

Relinquished by Date/Time Received by Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # TW-2
Well Diameter (D): 2" 0.167 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:	0	feet
Depth to Ground Water (DGW)	21.72	feet
Total Well Depth (TWD)	60.09	feet
Length of the water column (LWC = TWD-DGW)	38.37	feet
1 casing volume (CV = LWC X C) =	6.25	
3 casing volume 3 X CV = 18.76		gals (standard purge volume)
Total volume of Water Purged Before Sampling	18.76	gals
Total volume of Water Purged for Post Sampling	0	gals
	18.76	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	6.25	12.5	18.76				
Time (military)	1059	1014	1025	1132				1133
pH (s.u.)	6.67	6.37	6.33	5.92				
Specific Cond. (umhos/cm)	57	86	51	45				
Water Temperature (degrees C)	12.90	14.55	14.84	15.99				
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.80	>1000	>1000	>1000				
Dissolved Oxygen (mg/l)	2.42	1.68	1.27	1.59				
PID readings, if required								

Remarks:

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/20/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____ Standard _____ Standard _____

Chain of Custody YSI: 13B100013 Hanna: 08897525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Carolina Country Convenience
Site ID # 02261 Monitoring Well # TW-3
Well Diameter (D): 2" 0.167 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:	~~0~~	feet
Depth to Ground Water (DGW)	25.01	feet
Total Well Depth (TWD)	57.38	feet
Length of the water column (LWC = TWD-DGW)	32.37	feet
1 casing volume (CV = LWC X C) =	5.28	
3 casing volume 3 X CV =	15.83	gals (standard purge volume)
Total volume of Water Purged Before Sampling	5.28	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	5.28	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	5.28						
Time (military)	1002	1014						1015
pH (s.u.)	10.63	10.51						
Specific Cond. (umhos/cm)	259	238						
Water Temperature (degrees C)	13.75	16.09						
Turbidity (subjective: clear, slightly cloudy, cloudy)	9.80	>1000						
Dissolved Oxygen (mg/l)	2.57	1.48						
PID readings, if required								

Remarks:

Dry @ 1 volume

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no.
pH=4.0 Standard
pH=7.0 Standard
pH=10.0 Standard

Conductivity Meter serial no.
Standard
Standard

Chain of Custody: YSI: 13B100013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: TW-4
Well Diameter (D): 2" 0.167 foot
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	foot
Depth to Ground Water (DGW)	27.44	foot
Total Well Depth (TWD)	60.28	feet
Length of the water column (LWC = TWD-DGW)	32.84	foot
1 casing volume (CV = LWC X C) =	5.35	
3 casing volume 3 X CV =	16.06	gals (standard purge volume)
Total volume of Water Purged Before Sampling	5.35	gals
Total volume of Water Purged for Post Sampling	0	gals
	5.35	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	5.35						
Time (military)	1530	1543						1544
pH (s.u.)	5.96	5.96						
Specific Cond. (umhos/cm)	256	246						
Water Temperature (degrees C)	13.21	15.17						
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.00	350						
Dissolved Oxygen (mg/l)	1.01	1.21						
PID readings, if required								

Remarks:
Dry @ 1 volume

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 11/19/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 35° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody Ysi: 13B100013 Hanna: 08897525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Carolina Country Convenience
Site ID #: 02261 Monitoring Well #: TW-5
Well Diameter (D): 2" 0.167 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:	-0	feet
Depth to Ground Water (DGW)	25.47	feet
Total Well Depth (TWD)	57.01	feet
Length of the water column (LWC = TWD-DGW)	31.54	feet
1 casing volume (CV = LWC X C) =	5.14	
3 casing volume 3 X CV =	15.42	gals (standard purge volume)
Total volume of Water Purged Before Sampling	5.14	gals
Total volume of Water Purged for Post Sampling	-0	gals
	5.14	Total Purged

*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.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	5.14						
Time (military)	1443	1456						1457
pH (s.u.)	6.71	6.47						
Specific Cond. (umhos/cm)	158	160						
Water Temperature (degrees C)	16.30	17.22						
Turbidity (subjective: clear, slightly cloudy, cloudy)	14.0	650						
Dissolved Oxygen (mg/l)	2.44	1.78						
PID readings, if required								

Remarks:

Dry @ 1 Volume

APPENDIX M
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?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?	X		
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?	X		
14	Has a description of the soil sample collection and preservation been detailed?	X		
15	Has the field screening methodology and procedure been detailed?	X		
16	Has the monitoring well installation and development dates been provided?	X		
17	Has the method of well development been detailed?	X		
18	Has justification been provided for the locations of the monitoring wells?	X		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?	X		
27	Does the report include a brief discussion of the fate & transport models used?			X

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

Explanation for missing or incomplete information.

D H E C

PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

MR MICHAEL WALLACE
CAROLINA COUNTRY LLC
1908 HIGHWAY 601 NORTH
PAGELAND SC 29728

FEB 2 4 2015

Re: **Site Specific Work Plan Request for Assessment**
Carolina Country Convenience, 1908 Highway 601 North, Pageland, SC
UST Permit #02261
Release reported October 11, 2012
Tier II Report received January 29, 2015
Chesterfield County

Dear Mr. Wallace:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) reviewed the referenced report submitted on your behalf by Geological Resources, Inc. The next necessary scope of work is monitoring well installation to delineate the contaminant plume followed by a comprehensive groundwater sampling event to evaluate current site conditions.

The monitoring well installation and groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 2.0 and in compliance with all applicable regulations. A deep monitoring well should be installed to pair with MW-5 in the location depicted on the enclosed figure. After well installation is completed, plan to conduct a comprehensive sampling event. Groundwater samples should be collected from all monitoring wells associated with the referenced release and analyzed for BTEX + Naphth + MtBE, 1,2-DCA, 8 oxygenates, and EDB. A copy of the Agency QAPP Revision 2.0 for the UST Management Division is available at http://www.scdhec.gov/Environment/docs/QAPP_Rev-2_April2013.pdf.

Please have your contractor complete and submit the Site Specific Work Plan (SSWP) and Cost Agreement 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 approval from the Agency must be issued before work begins.**

On all correspondence regarding this site, please reference **UST Permit #02261**. If you have questions or need additional information, feel free to contact me at (803) 898-0607 or by e-mail me at thrasham@dhec.sc.gov.

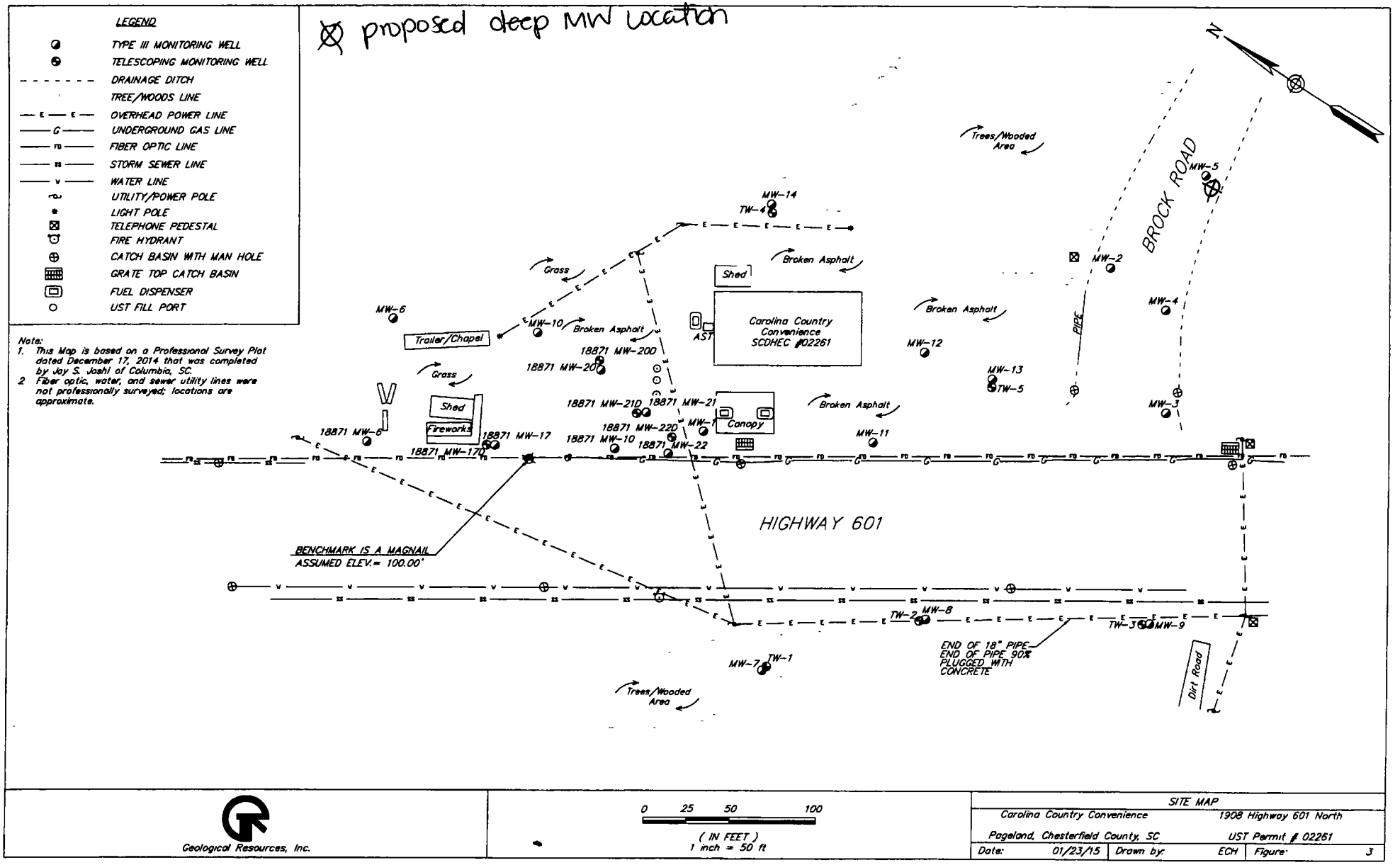
Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110 (w/ enc.)
Technical File

enc: Site Map With Proposed MW Location



Geological Resources, Inc.

SITE MAP

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — UST Permit # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	3

Geological Resources, Inc.

UST
MAR 17 2015
PROGRAM

March 13, 2015

UST
17tech
DOCKETING

Ms. Ashleigh Thrash
South Carolina Department of Health
And Environmental Control
Underground Storage Tank Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Re: GRI Proposal No. 15-144
Site Specific Work Plan
Carolina Country Convenience
1908 Highway 601 North
Pageland, Chesterfield County
UST Permit No. 02261

Dear Ms. Thrash:

Attached is a Site Specific Work Plan for approved ACQAP and the associated Assessment Component Cost Agreement for the above referenced site in Pageland, Chesterfield County, South Carolina. Please note that I have requested approval to sample most of the monitoring wells associated with the former Eddie's Pit Stop (UST Permit #18871) site to the west of the subject site in order to confirm plume delineation in that area. Due to safety considerations, Eddie's Pit Stop monitoring wells MW-2, MW-3, MW-3D, MW-7 and MW-9, which are located in the middle of Highway 601, will not be sampled.

Please contact me at (704) 845-4010 or by e-mail at wsb@geologicalresourcesinc.com if you have questions or comments concerning this matter.

Sincerely,

W. Scott Ball
Senior Project Manager

Enclosures

cc: file

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

D H E C
PROMOTE PROTECT PROSPER

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

To: Ashleigh Thrash (SCDHEC Project Manager)
From: Scott Ball (Contractor Project Manager)
Contractor: Geological Resources, Inc. UST Contractor Certification Number: 74

Facility Name: Carolina Country Convenience UST Permit #: 02261
Facility Address: 1908 Highway 601 North, Pageland
Responsible Party: Mr. Michael Wallace Phone: (843) 672-5527
RP Address: 1908 Highway 601 North, Pageland, SC 29728-8292
Property Owner (if different): Wilson, Inc.
Property Owner Address: Post Office Box 1839 Pageland, SC 29721
Current Use of Property: Commercial

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☑ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

- ☐ BTEXN

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

____ Soil	1 Water Supply Wells	____ Air	1 Field Blank
47 Monitoring Wells	____ Surface Water	3 Duplicate	1 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: NA Estimated Footage: ____ feet per point
# of deep points proposed: ____ Estimated Footage: ____ feet per point
Field Screening Methodology: ____

Permanent Monitoring Wells

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

# of shallow wells: ____ Estimated Footage: ____ feet per point
# of deep wells: 1 Estimated Footage: 68 feet per point
# of recovery wells: ____ Estimated Footage: ____ feet per point
Monitoring Well development method (consistent with SOP): Yes

Comments, if warranted:

Monitoring well TW-6 will be installed to a total depth of 68 feet with an outer casing set at approximately 47 feet. Top-of-casing elevation will be surveyed after installation of the well. All soil cuttings will be drummed for proper manifested disposal.

UST Permit #: 02261 Facility Name: Carolina Country Convenience

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 10 days from approval Field Work Completion: 13 days from approval
Report Submittal: 45 days from approval # of Copies Provided to Property Owners: 1

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

Investigation Derived Waste Disposal
Soil: 1.5 Tons Purge Water: 400 Gallons
Drilling Fluids: 120 Gallons Free-Phase Product: Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Sample 02261 MW-1 through MW-14 and TW-1 through TW-6 located at the subject site and on adjoining/adjacent properties. Sample the following monitoring wells associated with the Former Eddie's Pit Stop Site (UST Permit No. 18871): MW-1, MW-4, MW-5, MW-6, MW-8, MW-8D, MW-10 through MW-14, MW-14D, MW-15, MW-15D, MW-16, MW-16D, MW-17, MW-17D, MW-18, MW-18D, MW-19, MW-19D, MW-20, MW-20D, MW-21, MW-21D, MW-22, MW-22D if accessible. Sample PW-3. Three samples will be duplicated. One field blank will be collected. A trip blank will be submitted with the samples. All ground water samples will be analyzed for BTEX, naphthalene, MTBE, 1,2-DCA and 8 oxygenates by Method 8260 and EDB by Method 8011.

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:

Yes Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.
Name of Well Driller:
SCLLR Certification Number:

NA Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

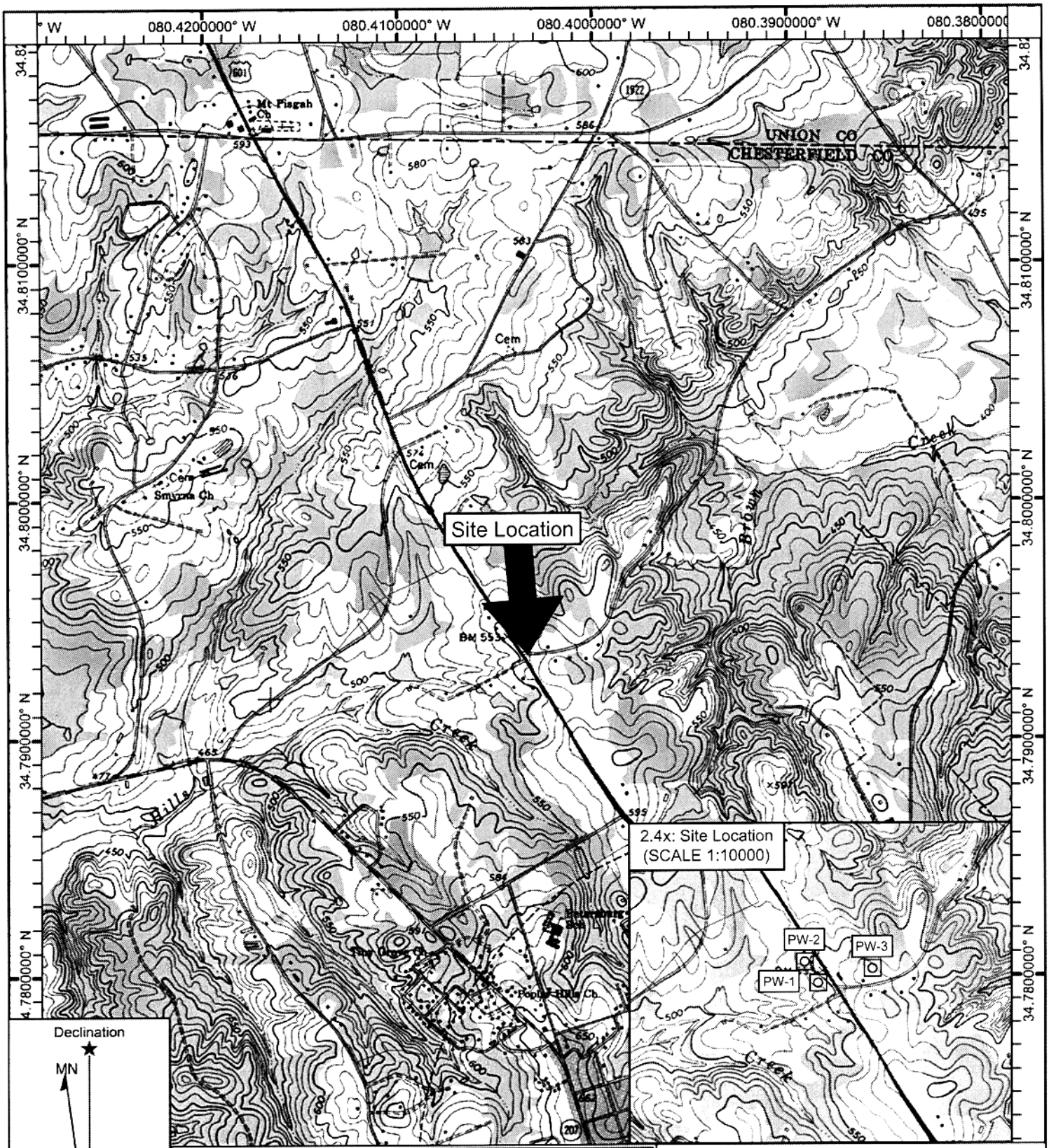


Figure 1
Carolina Country Convenience
1908 Highway 601 North
Pageland, South Carolina
UST Permit # 02261

SCALE 1:24000

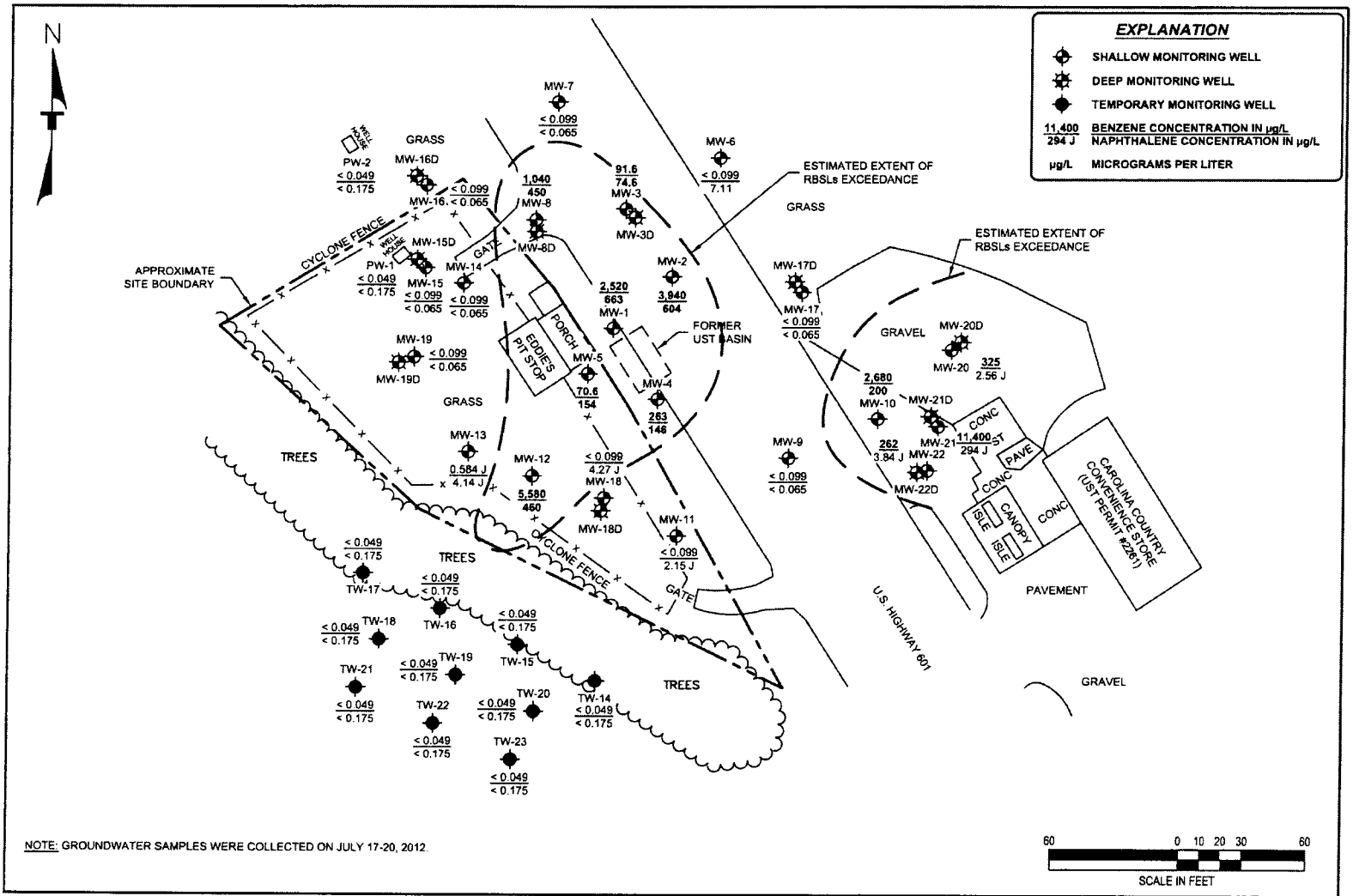
0 1000 2000 3000 4000 5000
FEET

Legend: Water Supply Well

Name: Topographic Map
Date: 12/09/14
Scale: 1 inch = 2,000 ft.

Map Center Location: 034.7940878° N 080.4035483° W

Generated by ECH at Geological Resources, Inc.



NOTE: GROUNDWATER SAMPLES WERE COLLECTED ON JULY 17-20, 2012.

Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH
Project No.	73098106
Scale:	AS SHOWN
File No:	73098106
Date:	AUGUST 2012

Terracon
Consulting Engineers and Scientists
521 CLEMSON ROAD COLUMBIA, SC 29229
PH. (803) 741-9000 FAX. (803) 741-9900

BENZENE / NAPHTHALENE CONCENTRATION MAP OF THE UPPER PORTION OF THE SHALLOW AQUIFER

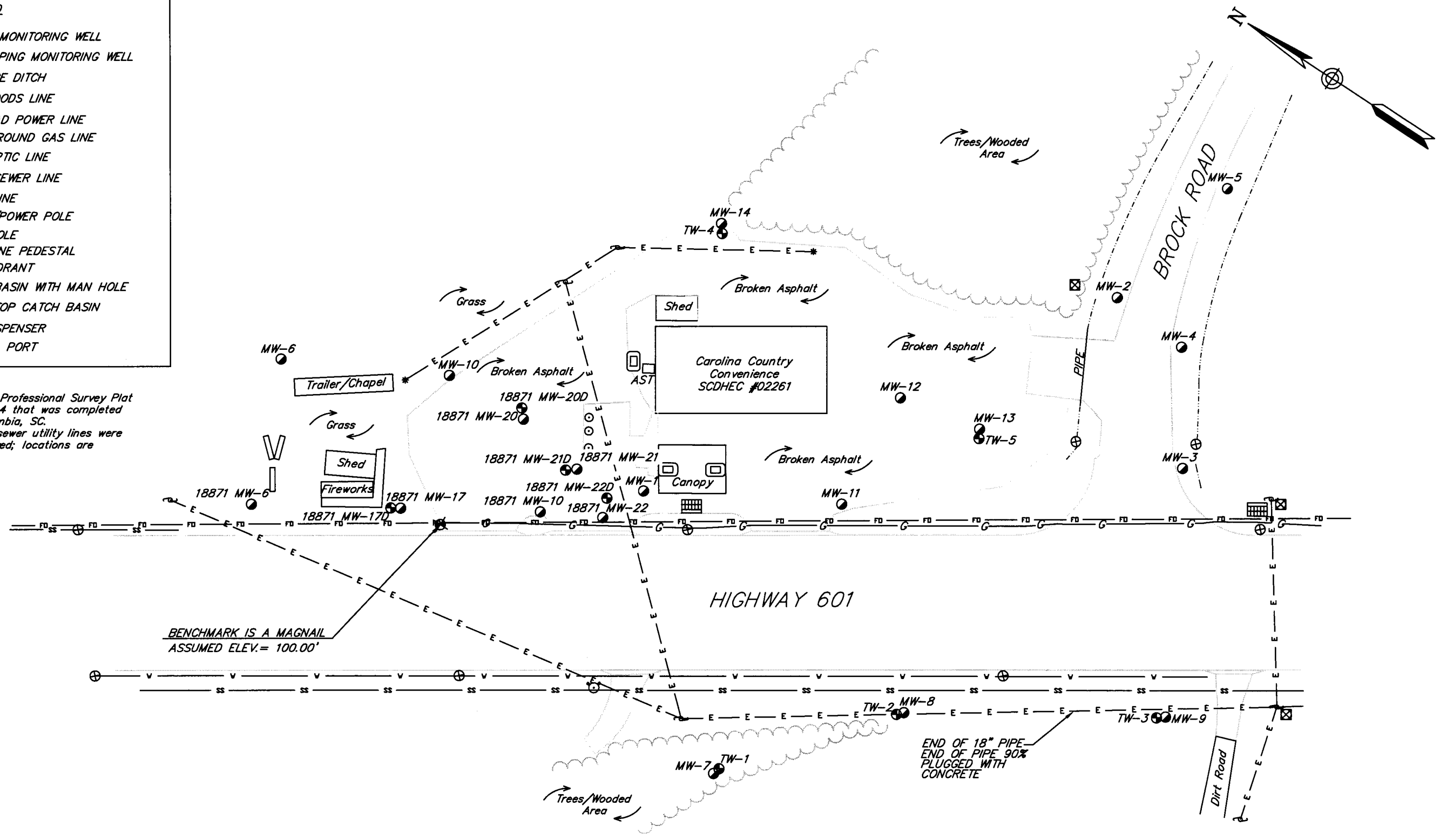
EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 10

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- DRAINAGE DITCH
- TREE/WOODS LINE
- E — E — OVERHEAD POWER LINE
- G — UNDERGROUND GAS LINE
- FO — FIBER OPTIC LINE
- SS — STORM SEWER LINE
- W — WATER LINE
- UTILITY/POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- CATCH BASIN WITH MAN HOLE
- GRATE TOP CATCH BASIN
- FUEL DISPENSER
- UST FILL PORT

Note:
1. This Map is based on a Professional Survey Plat dated December 17, 2014 that was completed by Jay S. Joshi of Columbia, SC.
2. Fiber optic, water, and sewer utility lines were not professionally surveyed; locations are approximate.



Geological Resources, Inc.

0 25 50 100

(IN FEET)
1 inch = 50 ft

SITE MAP

Carolina Country Convenience — 1908 Highway 601 North

Pageland, Chesterfield County, SC — UST Permit # 02261

Date:	01/23/15	Drawn by:	ECH	Figure:	3