

**Via E- Mail**

November 5, 2013

Mr. Jay King  
North Carolina Department of Environment and  
Natural Resources  
Division of Waste Management, Superfund Section  
Dry Cleaning Solvent Cleanup Program  
1646 Mail Service Center  
Raleigh, NC 27699

**Re: Prioritization Assessment Report  
Scott's Cleaners  
Greenville, Pitt County  
DSCA ID # 74-0011  
H&H Job No. DS0-83A**

Dear Jay:

Attached please find a Prioritization Assessment Report documenting initial soil and groundwater assessment activities conducted at the Scott's Cleaners site located at 1699 Farmville Boulevard in Greenville, Pitt County, North Carolina.

As part of the prioritization assessment activities, H&H installed and sampled fourteen soil borings (SB-1 through SB-3 and SB-7 through SB-17) and eleven temporary monitoring wells (TMW-1 through TMW-11). The results indicate that soil and groundwater at the site have been impacted by releases of the dry-cleaning solvent tetrachloroethene (PCE). The groundwater impacts extend off of the source property predominantly to the south/southeast. Additional assessment activities are needed to further delineate the extent of impacts.

Mr. Jay King  
November 5, 2013  
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H&H appreciates the opportunity to work with you on this project. If you have any questions or require additional information, please do not hesitate to contact us at 704-586-0007.

Very truly yours,

***Hart & Hickman, PC***



Mary Johanson  
Assistant Project Geologist



Christie Zawtocky, PE  
Principal Engineer

Attachment

# Prioritization Assessment Report Scott's Cleaners

**DSCA ID: 74-0011  
1699 Farmville Boulevard  
Greenville, Pitt County**

## **North Carolina Dry-Cleaning Solvent Cleanup Act Program**

**H&H Job No. DS0-83A  
November 5, 2013**



#C-1269 Engineering  
#245 Geology

**Assessment Report Forms**  
**for**  
**North Carolina Dry-Cleaning Solvent Cleanup Act Program**

<b>Facility Name:</b>	Scott's Cleaners
	1699 Farmville Boulevard
<b>DSCA ID No.:</b>	74-0011
<b>Submittal Date:</b>	November 5, 2013
<b>Prepared By:</b>	Hart & Hickman, PC
	2923 South Tryon Street, Suite 100, Charlotte, North Carolina 28203

**DSCA ID No.:** 74-0011

- Currently operating facility since \_\_\_\_\_
- Previously operating facility since \_\_\_\_\_ 1986
- Temporarily out of service from \_\_\_\_\_ to \_\_\_\_\_
- Permanently out of service since \_\_\_\_\_ 1995

Provide the name, address and telephone number of the current dry-cleaning business and the dry-cleaning business owner. If no current business at the facility, provide the name and address of the last dry-cleaner doing business at the site.

Facility name: Scott's Cleaners

Facility address (include name of shopping centre and the county where facility is located): 1699 Farmville Boulevard  
Greenville, Pitt County

Facility telephone number (if applicable): NA

Facility Owner's Name: Hugh Vincent

Owner's Mailing Address: 138 Squire Drive  
Winterville, NC 28590

Owner's Telephone number: 252-413-9805

Provide the earliest known date of the facility use for dry-cleaning business and the name of the dry-cleaning business (if applicable).


Scott's Cleaners - 1986

Provide information on businesses that occupied the facility that may use or have used solvents and other chemicals. Identify solvents and chemicals used at the facility (if applicable).

Based on available site information, Scott's Cleaners operated at the site from 1986 to 1995. Tetrachloroethene (PCE) was utilized in dry-cleaning operations during that time period. After 1995, Scott's Cleaners operated as a laundromat and drop-off location only. In early 2013, the facility closed and is currently vacant.

**Report Prepared By**

I certify that the prioritization assessment as stated in this report was prepared under my supervision.

Christie Zawtocky  November 5, 2013

Contractor Date

Christie Zawtocky, PE Hart & Hickman, PC

Printed Name Company Name

DSCA ID No.: 74-0011

Number of dry-cleaning machines used at current or former facility: **unknown**

Type of dry-cleaning machines used at current or former facility (e.g., transfer, dry-to-dry with vented exhaust, etc.).

Historical dry-cleaning machine types are unknown.

Type of dry-cleaning solvents used by each type of machine.

Perchloroethene (PCE).

Where are/were the dry-cleaning solvents stored at the facility site? (Machine base tanks, UST(s), AST(s), etc.)

Historical storage practices are unknown.

Are chlorinated dry cleaning solvents delivered to the facility by means of a closed, direct-coupled delivery system?

Historical delivery practices are unknown

Are virgin (new) solvents stored in containers other than the dry-cleaning machine?

Yes  No

Are or were any USTs or ASTs used to store any petroleum or hazardous substances other than dry-cleaning solvents at the facility

Yes  No

If yes, provide information about the substance stored, year taken out of service, virgin solvent or waste solvent, etc.

According to a Ground Penetrating Radar (GPR) survey completed at the site by Pyramid Enviromental & Engineering as part of a Preliminary Assessment for the NCDOT in August 2012, no USTs were found on the site.

What methods of disposal are used or have been used for separator water?

Historical disposal methods for separator water are unknown.

Provide information about the current/historical waste management practices, including types of wastes that are/were generated and how the waste are/were stored and managed.

Historical waste management practices are unknown.

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**Ground Surface Conditions**

- Unpaved
- Paved >90 % area paved:
- Any visible cracks in pavement?  Yes  No

**Subsurface Utilities**

In the space provided for additional notes, please indicate the location and distance from soil and/or groundwater contamination to the nearest subsurface utility line and access point (e.g., manhole).

Have the utilities been screened for vapor levels?  Yes  No

If YES, attach documentation of vapor monitoring results.

Indicate which of the following utilities currently act as conduits, or are likely to become conduits, under the columns entitled "Impacted by Release," and "Potentially Impacted by Release," respectively.

	Depth [feet]	Type of Material	Flow Direction	Impacted by Release	Potentially Impacted by Release
<input checked="" type="checkbox"/> Sanitary sewer	Unknown	Unknown	Unknown	Unknown	Unknown
<input type="checkbox"/> Septic drainfields					
<input type="checkbox"/> Covered storm sewer					
<input type="checkbox"/> Open ditch					
<input checked="" type="checkbox"/> Water line	Unknown	Unknown	Unknown	Unknown	Unknown
<input checked="" type="checkbox"/> Gas line	Unknown	Unknown	Unknown	Unknown	Unknown
<input checked="" type="checkbox"/> Electric line	Unknown	Unknown	Unknown	Unknown	Unknown
<input checked="" type="checkbox"/> Telephone line	Unknown	Unknown	Unknown	Unknown	Unknown
<input type="checkbox"/> Other					

**Release Characterization**

Date the release was discovered: August 2012  
 Date the release was reported: February 2013  
 Type of release (explain): Chlorinated solvents identified in soil and groundwater are likely due to former drycleaning operations at the site; however, the source of the release is unknown.

- Has the release been abated?  Yes  No
- Is native soil impacted?  Yes  No
- Is groundwater impacted?  Yes  No
- Is surface water impacted?  Yes  No Surface water has not been sampled.

**Release Discovery**

- UST(s)/AST(s) removal
- Inventory control
- Facility remodeling/Construction activity
- Environmental assessment
- Other (specify)
- Known spill incident
- Citizen complaint
- Assessment on adjacent property
- Unknown

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Source(s) of Release

- |   |   |
|---|---|
| <input type="checkbox"/> Spills/Overfills | <input type="checkbox"/> Tanks              |
| <input type="checkbox"/> Piping           | <input checked="" type="checkbox"/> Unknown |
| <input type="checkbox"/> Other (specify)  |   |

Chemicals of Concern

- |  |  |
|--|--|
| <input type="checkbox"/> 1,1,1-Trichloroethane     | <input checked="" type="checkbox"/> cis-1,2-Dichloroethylene |
| <input type="checkbox"/> 1,1,2,2-Tetrachloroethane | <input checked="" type="checkbox"/> Ethylbenzene             |
| <input type="checkbox"/> 1,1,2-Trichloroethane     | <input type="checkbox"/> Methyl tert-butyl ether (MTBE)      |
| <input type="checkbox"/> 1,1-Dichloroethane        | <input type="checkbox"/> Naphthalene                         |
| <input type="checkbox"/> 1,1-Dichloroethylene      | <input checked="" type="checkbox"/> Tetrachloroethylene      |
| <input type="checkbox"/> 1,2-Dichloroethane (EDC)  | <input checked="" type="checkbox"/> Toluene                  |
| <input type="checkbox"/> Benzene                   | <input type="checkbox"/> trans-1,2-Dichloroethylene          |
| <input type="checkbox"/> Benzo(a)pyrene            | <input checked="" type="checkbox"/> Trichloroethylene        |
| <input type="checkbox"/> Carbon tetrachloride      | <input type="checkbox"/> Vinyl chloride                      |
| <input type="checkbox"/> Chloroform                | <input checked="" type="checkbox"/> Xylenes (total)          |
| <input type="checkbox"/> Others                    |  |

Additional Notes

The primary constituents of concern associated with the former dry-cleaning operations are tetrachloroethene (PCE) and trichloroethene (TCE). These constituents have been detected at concentrations above the DSCA Tier 1 RBSLs in groundwater and/or soil. Cis-1,2-dichloroethylene (cis-1,2-DCE) and trans-1,2-DCE, which are degradation products of PCE, were also detected in soil and/or groundwater, but at concentrations below the DSCA Tier 1 RBSL.

The other constituents checked above are not believed to be associated with the dry-cleaning release. These constituents have been detected in groundwater at concentrations below DSCA Tier 1 RBSLs.



DSCA ID No.: 74-0011

**Land Use**

On-site Land Use

Residential

Commercial/Industrial

Other

Current

Future

Justify the choice for future land use:

The subject site has been a dry cleaning facility since 1986. The area surrounding the site is both residential and commercial. It is possible that land use might change in the future.

Immediate Off-site Land Use (within 500 feet - at a minimum, state whether, residential, commercial/industrial, agricultural, or ecologically sensitive area). Indicate distances to residential/commercial/industrial buildings having basements which are occupied.

North:	Commercial with residential beyond
Northeast:	Commercial with residential beyond
Northwest:	Commercial
South:	Residential
Southeast:	Residential
Southwest:	Commercial
West:	Commercial
East:	Residential

**Receptor Survey**

List the distance and the direction (downgradient, upgradient, or crossgradient) to these facilities within 0.5 mile radius of the site (If necessary provide details in additional notes).

	Distance [feet]	Direction
Nearest residential site:	Adjacent	Downgradient
Nearest commercial/industrial site:	Adjacent	Downgradient
If site is vacant, nearest inhabited building:	Adjacent	Downgradient
Nearest ecologically sensitive area (agricultural areas, parks/recreational areas, wildlife sanctuaries, wetlands):	1,500	Downgradient
Nearest school, hospital, day care, nursing home etc.:	600	Downgradient
Nearest public supply well:	5,300	Downgradient
Nearest private supply well:	N/A	N/A
Nearest point of exposure (current or potential) for groundwater ingestion:	5,300	Downgradient
Nearest surface water body:	3,500	Upgradient

**Additional Notes**

Distances to the nearest residential, commercial, and school sites were measured from the subject site to the applicable site property lines. Distances to the nearest ecologically sensitive area, point of exposure, and surface water body were measured from the groundwater source area. Groundwater at the site flows to the east/southeast. The Tar River is located approximately 3,500 ft to the north and upgradient of the site. The nearest day care facility is 600 ft to the south and downgradient of the site. The nearest potential point of exposure for groundwater ingestion is a public supply well located approximately 5,300 ft southeast and downgradient of the site.

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Groundwater Use

Is the groundwater used on-site?  Yes  No

If yes, specify the use:

- Potable domestic supply
- Non-potable domestic supply
- Public/Municipal supply
- Industrial supply
- Agriculture
- Other (explain in space provided below)

Empty text box for other groundwater uses.

Surface Water Use

Is a surface water body present in 1,000 feet radius of the site?  Yes  No

If yes, specify the following:

Type of water body:  River  Wet weather creek  Drain ditch  Regular creek  Other:

North Carolina classification of water body

Does the water discharges into lake or reservoir?  Yes  No

Surface water use:

- Potable domestic supply
- Non-potable domestic supply
- Public/Municipal supply
- Industrial supply
- Agriculture
- Other (explain in space provided below)

Empty text box for other surface water uses.

Ecological Receptors and Habitats

- 1. Are there any ecological receptors or habitats present within 500 feet radius from the site?  Yes  No
- 2. Are there visible indications of stressed receptors or habitats on or near the site that may be a result of chemical release?  Yes  No

Water Well(s) Information

- 1. Are there public/municipal water supply wells within 0.5 mile radius from the  Yes  No
- 2. Are there private water supply wells within 1500 feet radius from the site?  Yes  No

Additional Notes

The closest public water supply well is located approximately 5,300 feet southeast and downgradient of the site. No private water supply wells were identified within 1,500 feet of the site.

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**Stratigraphy of Site**

Depth [feet]	Description of Soil
0-3	Brown, silty SAND
3-8	Tan and orange, clayey SAND
Predominant Soil Type:	
Depth [feet]	Type of Bedrock and Geological Formation
N/A	Bedrock not encountered at the site.

**Hydrogeology of the Saturated Impacted Zone**

Type of Aquifer?	<input type="radio"/> Confined <input checked="" type="radio"/> Unconfined <input type="radio"/> Perched
Underlying predominant aquifer name:	N/A
Aquifer classification (if applicable):	N/A
Range of groundwater level fluctuations [feet bgs]:	N/A
Average depth to water table/static water level:	6.97
Flow direction:	East/Southeast
Hydraulic gradient (i) [--]:	0.016
Hydraulic conductivity (K) [cm/year]:	3,156
Darcy velocity (K x i) [cm/year-calculated]:	50.50
Groundwater velocity (K x i/Porosity) [cm/year]:	NA
Annual precipitation (average for last 30 years) [inches/year]:	49.4

**Additional Notes**

Average depth to groundwater is an average of August 2013 data for temporary monitoring wells TMW-1 through TMW-6.

There are no historical groundwater elevation data to calculate a range of groundwater fluctuations.

Groundwater at the site predominately flows to the east/southeast.

The hydraulic gradient was calculated from August 2013 groundwater elevation data for TMW-2 and TMW-3.

Hydraulic conductivity is based on typical values for the predominant soil type (Dawson & Istok, Aquifer Testing: Design and Analysis of Pumping and Slug Tests, 1991).

Average annual precipitation for Greenville, NC was obtained from:  
<http://www.usclimatedata.com/climate.php?location=USNC0281>

### Vadose Zone Characteristics

	<u>Values/Range</u>			<u>Method</u>
Dry bulk density [ $\text{g}/\text{cm}^3$ ]	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA
Total porosity [ $\text{cm}^3/\text{cm}^3$ ]:	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA
Effective porosity [ $\text{cm}^3/\text{cm}^3$ ]:	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA
Water content [ $\text{cm}^3/\text{cm}^3$ ]:	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA
Fractional organic carbon content [g-C/g-soil]:	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA

### Saturated Zone Characteristics

	<u>Values/Range</u>			<u>Method</u>
Dry bulk density [ $\text{g}/\text{cm}^3$ ]	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA
Total porosity [ $\text{cm}^3/\text{cm}^3$ ]:	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA
Effective porosity [ $\text{cm}^3/\text{cm}^3$ ]	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA
Water content [ $\text{cm}^3/\text{cm}^3$ ]:	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA
Fractional organic carbon content [g-C/g-soil]:	NA	<input type="checkbox"/> Estimated	<input type="checkbox"/> Measured	NA

### Additional Notes

Geotechnical analysis has not been completed at the site to date.

**DSCA ID No.: 74-0011**

Was NAPL discovered at the site:

Yes  No

If Yes, type of NAPL discovered:

LNAPL  DNAPL

**Summary of LNAPL**

Date LNAPL was discovered? \_\_\_\_\_

Type of LNAPL discovered (if known): \_\_\_\_\_

Number of monitoring wells/points currently at site: \_\_\_\_\_

Number of monitoring wells/points containing LNAPL (Note if any, list the monitoring wells/points containing NAPL):  
 \_\_\_\_\_

Has LNAPL removal started? \_\_\_\_\_

If No, cite reason: \_\_\_\_\_

If Yes, specify method of removal (bailer, pump, etc.): \_\_\_\_\_

Removal points (MW #, Boring #, etc.): \_\_\_\_\_

Total number of recovery events to date: \_\_\_\_\_

Total amount of purge-water recovered: \_\_\_\_\_

Total amount of LNAPL recovered: \_\_\_\_\_

Date of latest LNAPL removal report submitted: \_\_\_\_\_

**Summary of DNAPL**

Date DNAPL was discovered? \_\_\_\_\_

Type of DNAPL discovered (if known): \_\_\_\_\_

Number of monitoring wells/points currently at site: \_\_\_\_\_

Number of monitoring wells/points containing DNAPL (Note if any, list the monitoring wells/points  
 \_\_\_\_\_)

Has DNAPL removal started? \_\_\_\_\_

If No, cite reason: \_\_\_\_\_

If Yes, specify method of removal (bailer, pump, etc.): \_\_\_\_\_

Removal points (MW #, Boring #, etc.): \_\_\_\_\_

Total number of recovery events to date: \_\_\_\_\_

Total amount of purge-water recovered: \_\_\_\_\_

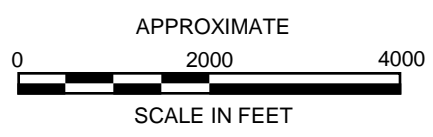
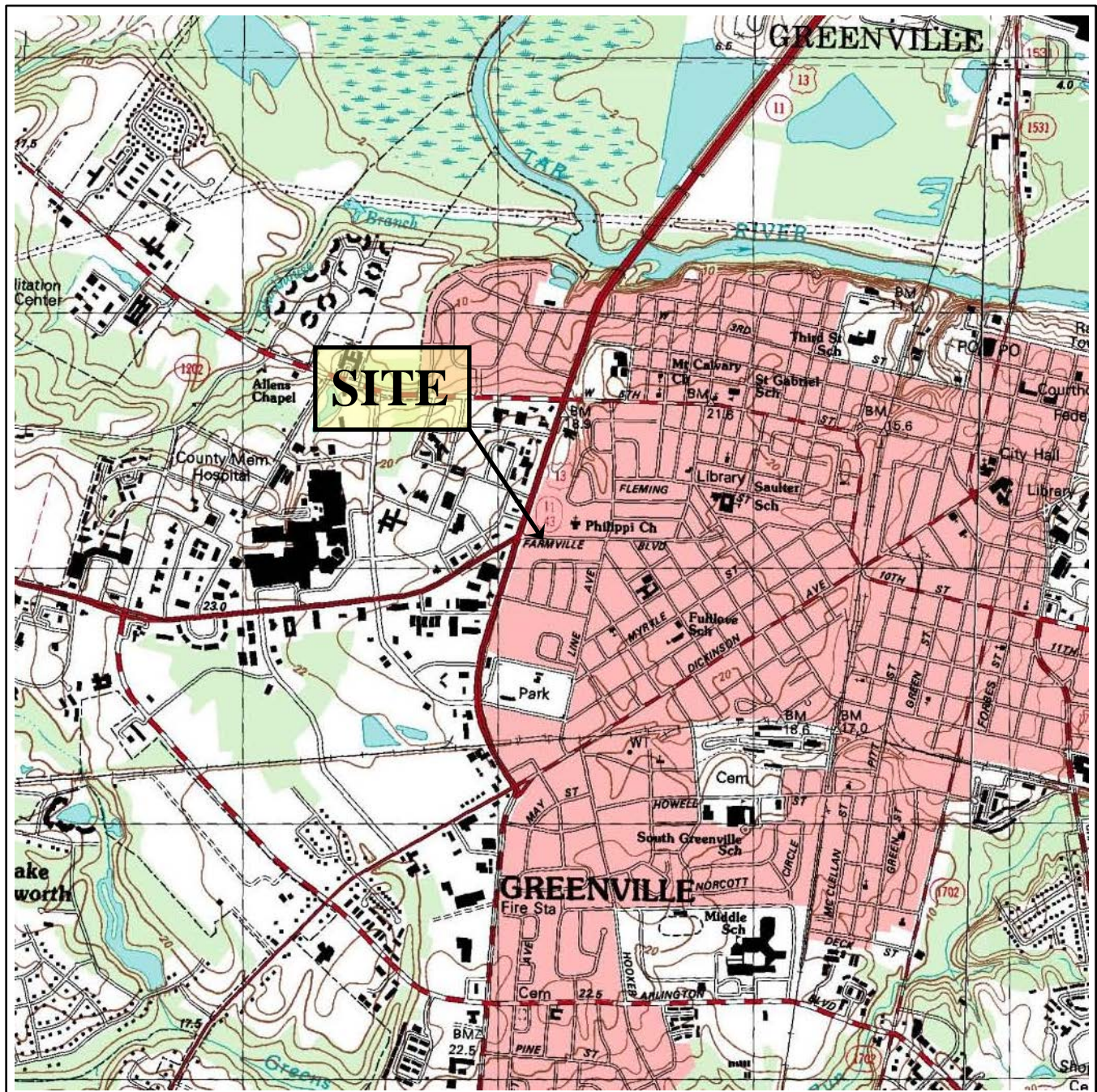
Total amount of DNAPL recovered: \_\_\_\_\_

Date of latest DNAPL removal report submitted: \_\_\_\_\_

**Additional Notes**


Based on the 2013 sampling activities, no NAPL has been discovered at the site.

**ATTACHMENT 1**  
**SITE LOCATION MAP**



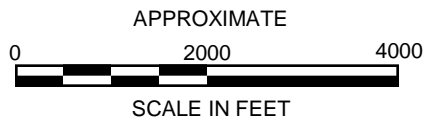
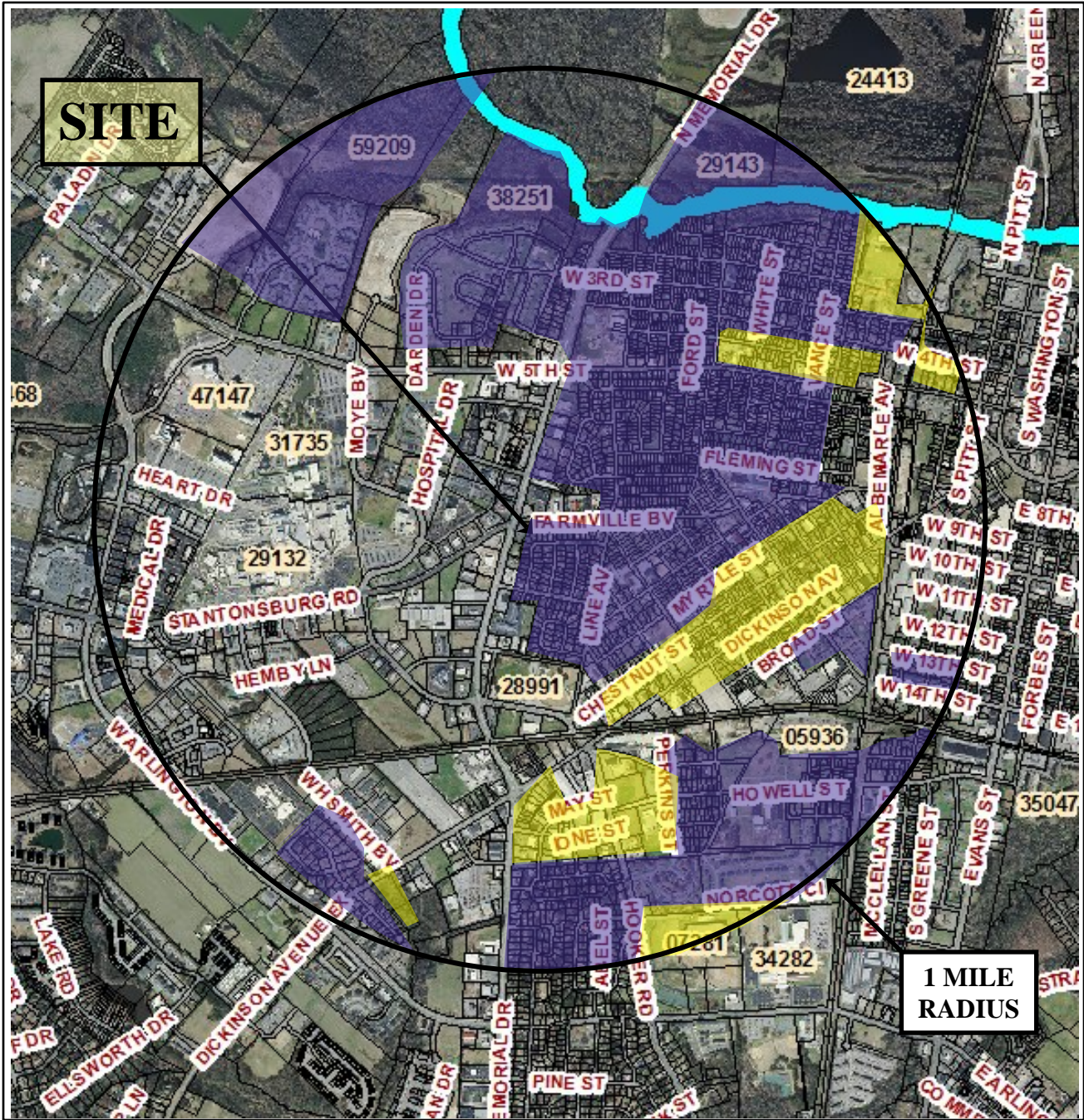
U.S.G.S. QUADRANGLE MAP  
**GREENVILLE SW, NORTH CAROLINA 1998**

QUADRANGLE  
 7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	<b>SITE LOCATION MAP</b>	
PROJECT	<b>SCOTT'S CLEANERS</b> DSCA ID: 74-0011 1699 FARMVILLE BOULEVARD GREENVILLE, PITT COUNTY	
	 <b>SMARTER ENVIRONMENTAL SOLUTIONS</b>	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f)
DATE:	10-27-13	REVISION NO: 0
JOB NO:	DS0-83	ATTACHMENT NO. 1


**ATTACHMENT 7**  
**SCALED VICINITY MAP**



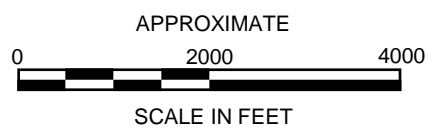
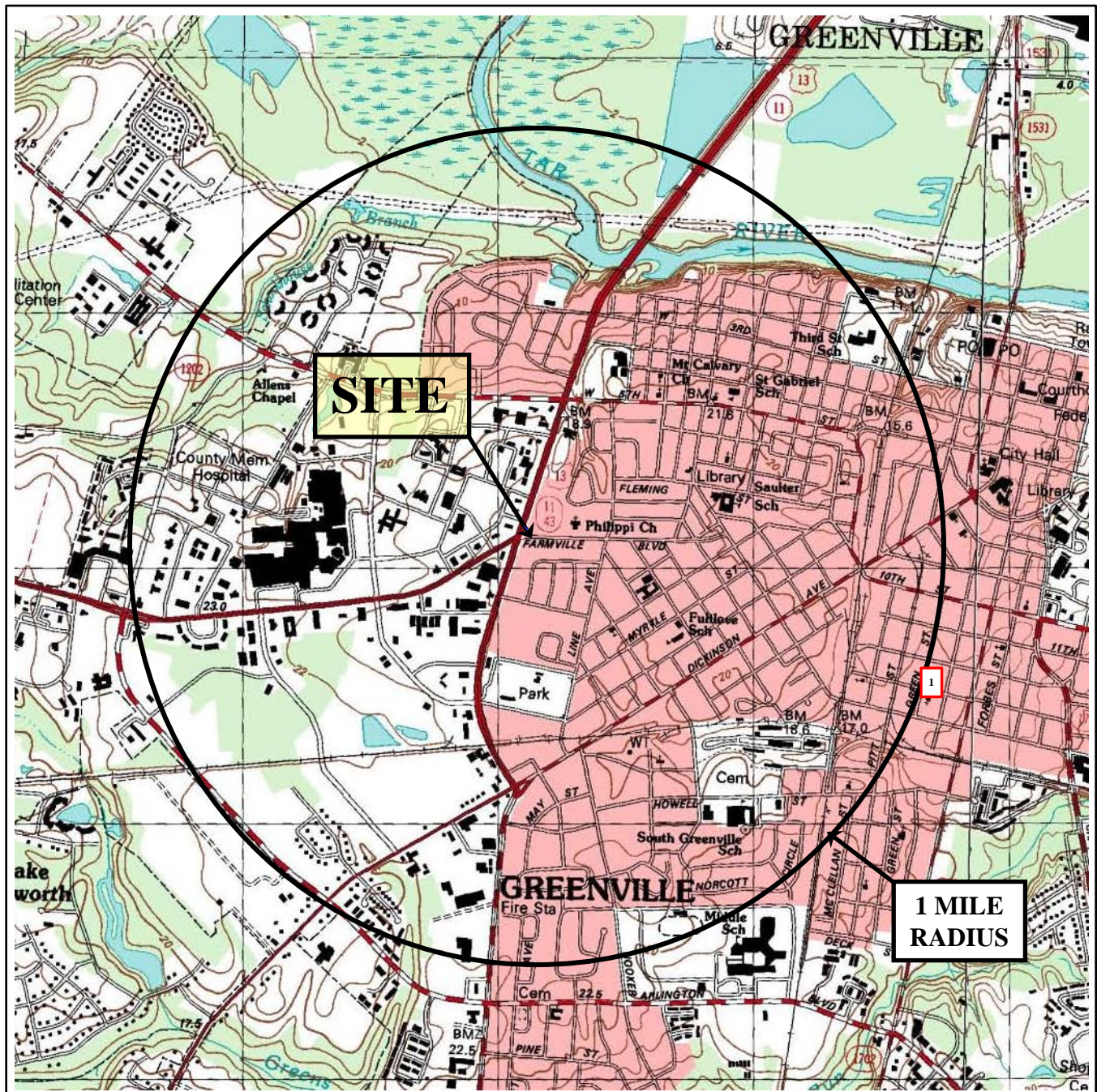


**LEGEND**

- RESIDENTIAL LAND AREA
- MIXED USE DEVELOPMENT LAND AREA
- AREAS WITH NO COLOR SHADING ARE COMMERCIAL / OFFICE / BUSINESS LAND AREA

TITLE	<b>VICINITY MAP</b>	
PROJECT	<b>SCOTTS CLEANERS</b> DSCA ID: 74-0011 1699 FARMVILLE BLVD GREENVILLE, PITT COUNTY	
		2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f)
DATE:	10-29-13	REVISION NO: 0
JOB NO:	DS0-83	ATTACHMENT NO. 7


**ATTACHMENT 8**  
**WATER SUPPLY WELL LOCATION MAP**



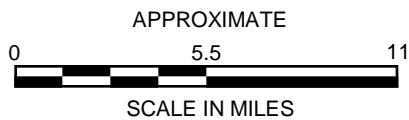
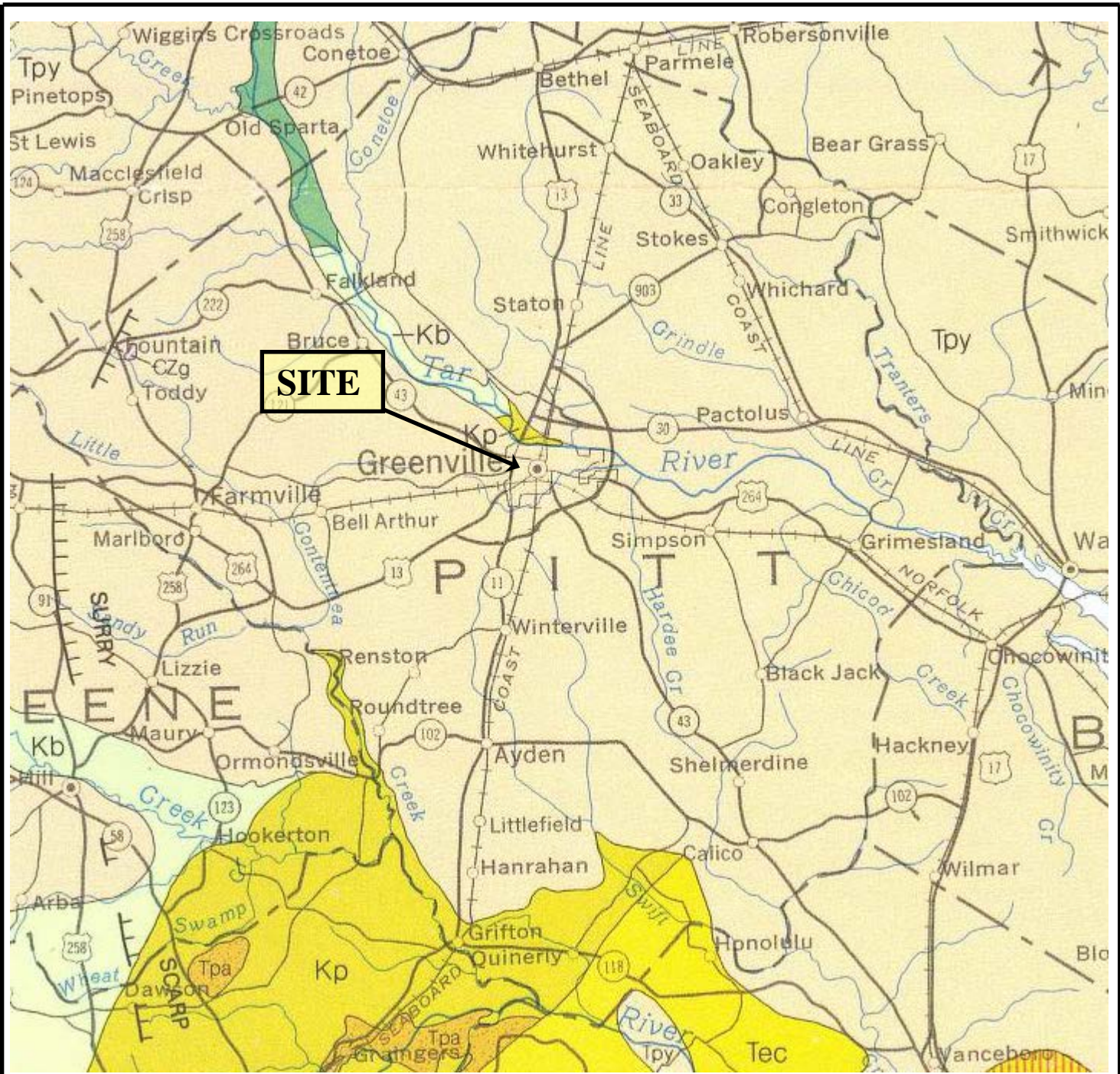
1 PRIVATE WATER SUPPLY WELL  
(see ADT 10 for well information)

U.S.G.S. QUADRANGLE MAP  
**GREENVILLE SW, NORTH CAROLINA 1998**

QUADRANGLE  
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	<b>WATER WELL LOCATION MAP</b>	
PROJECT	<b>SCOTT'S CLEANERS</b> DSCA ID: 74-0010 1699 FARMVILLE BOULEVARD GREENVILLE, PITT COUNTY	
	 SMARTER ENVIRONMENTAL SOLUTIONS	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f)
DATE:	10-27-13	REVISION NO: 0
JOB NO:	DS0-83	ATTACHMENT NO. 8

**ATTACHMENT 9**  
**AREA GEOLOGIC MAP**



**COASTAL PLAIN**

YORKTOWN FORMATION AND DUPLIN FORMATION, UNDIVIDED

SOURCE: GEOLOGIC MAP OF NORTH CAROLINA 1985

<b>TITLE</b>	<b>AREA GEOLOGIC MAP</b>	
<b>PROJECT</b>	<b>SCOTT'S CLEANERS</b> DSCA ID: 74-0010 1699 FARMVILLE BOULEVARD GREENVILLE, PITT COUNTY	
		2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f)
<b>DATE:</b>	10-27-13	<b>REVISION NO:</b> 0
<b>JOB NO:</b>	DS0-83	<b>ATTACHMENT NO.</b> 9

**ATTACHMENT 10**

**BORING LOGS**



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Charlotte, North Carolina 28203  
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street  
Raleigh, North Carolina 27607  
919-847-4241(p) 919-847-4261(f)

# BORING NUMBER SB-1/TMW-1

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0							(SM) Black to gray, silty SAND		0.0
				0	2.4				
				0	3.6				
2.5	↙	GB		0	8.6				2.5
	↙	GB		0	4.4		(SC) Black to gray, clayey SAND, moist @ 4ft		
				0	9.3		(SC) Gray, clayey SAND		5.0
5.0				0	2.4				
				0	3.4		(CL) Gray to orange, CLAY		
7.5				0	2.9				7.5
							Not sampled		
							Bottom of borehole at 9.0 feet.		
10.0									10.0

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:33 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 9 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



SMARTER ENVIRONMENTAL SOLUTIONS

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3334 Hillsborough Street  
Raleigh, North Carolina 27607  
919-847-4241(p) 919-847-4261(f)

# BORING NUMBER SB-2/TMW-2

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0				0	0	(SM) Tan, silty SAND			0.0
2.5		GB		0	0	(SM) Tan to orange, clayey SAND			2.5
		GB		0	0	(SC) Tan to gray, clayey SAND, moist @ 4ft			
5.0				0	0	(SC) Light gray, clayey SAND			5.0
7.5				0	0	(CL) Gray to orange, CLAY			7.5
						Not sampled			
10.0						Bottom of borehole at 10.0 feet.			10.0

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 10 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**





SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, North Carolina 28203  
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street  
Raleigh, North Carolina 27607  
919-847-4241(p) 919-847-4261(f)

# BORING NUMBER SB-3/TMW-3

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0				0	0	(SM) Tan, silty SAND		0.0	
2.5		GB		0	3.2			2.5	
5.0		GB		0	1.4	(SC) Tan to orange, clayey SAND, moist @ 4ft		5.0	
7.5				0	0.7			7.5	
				0	1.4	(CL) Gray to orange, CLAY			
				0	4.4				
				0	3.1				
				0	0	Not sampled			
10.0						Bottom of borehole at 10.0 feet.		10.0	

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 10 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-4/TMW-4

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0							(SM) Brown, silty SAND		0.0
				0	3.2				
				0	9.4				
2.5		GB		0	4.8		(SC) Tan to gray, clayey SAND, moist @ 4ft		2.5
				0	1.8				
				0	0				
5.0				0	0		(SM) Gray, silty SAND, wet @ 6ft		5.0
				0	0				
				0	0		(CL) Gray to orange, CLAY		
7.5				0	0				7.5
							Not sampled		
10.0							Bottom of borehole at 10.0 feet.		10.0

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\IDSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 10 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-5/TMW-5

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0							(SM) Brown, silty SAND		0.0
2.5		GB					(SM) Tan to gray, silty SAND		2.5
							(SM) Gray to orange, silty SAND, moist @ 4ft		
5.0							(CL) Gray to orange, CLAY		5.0
7.5							Not sampled		7.5
10.0							Bottom of borehole at 10.0 feet.		10.0

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\IDSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 10 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-6/TMW-6

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0				0	0	(SM) Brown, silty SAND			0.0
2.5		GB		0	0	(SM) Tan, silty SAND			2.5
5.0				0	0	(SC) Tan to orange, clayey SAND, moist @ 5ft			5.0
7.5				0	0				7.5
10.0						Not sampled			10.0
							Bottom of borehole at 10.0 feet.		

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 10 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-7

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0		GB		0	0.7	(SM) Brown, silty SAND		0.0	
2.5				0	0	(SM) Tan, silty SAND		2.5	
5.0		GB		0	0	(SC) Gray to tan, clayey SAND, moist @ 4ft		5.0	
7.5				0	0	(SC) Gray to orange, clayey SAND		7.5	
Bottom of borehole at 8.0 feet.									

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-8

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0				0	0	(SM) Brown, silty SAND			0.0
				0	0	(SM) Tan, silty SAND			
2.5		GB		0	0	(SC) Gray to tan, clayey SAND, moist @ 4ft			2.5
				0	0	(SC) Gray to orange, clayey SAND			
5.0		GB		0	0				5.0
				0	0				
7.5				0	0				7.5
							Bottom of borehole at 8.0 feet.		

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-9

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0		GB		0	0	(SM) Brown, silty SAND		0.0	
2.5				0	0	(SM) Tan, silty SAND		2.5	
5.0		GB		0	0	(SC) Gray to tan, clayey SAND, moist @ 4ft		5.0	
7.5				0	0	(SC) Gray to orange, clayey SAND		7.5	
Bottom of borehole at 8.0 feet.									

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/5/13  
**BORING COMPLETED:** 8/5/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-10

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:33 - S:\AAA-MASTER GINT PROJECTS\IDSO-83.GPJ

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0						Concrete			0.0
				0	0	(SM) Brown, silty SAND			
		GB		0	0				
2.5				0	0	(SP-SC) Tan to orange, SAND with some clay			2.5
				0	0	(SM) Gray, silty SAND, moist @ 4ft, wet @ 7ft			
		GB		0	0				
5.0				0	0				5.0
				0	0				
7.5				0	0				7.5
							Bottom of borehole at 8.0 feet.		

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/6/13  
**BORING COMPLETED:** 8/6/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**





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# BORING NUMBER SB-11

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0						Concrete			0.0
				0	7.2	(SM) Brown, silty SAND			
		GB		0	22.2				
				0	14.1	(SM) Tan, silty SAND			
2.5				0	7.8				2.5
				0	4.2	(SM) Gray to tan, silty SAND, wet @ 4ft			
				0	1.2				
				0	0				
				0	0				
7.5				0	0				7.5
							Bottom of borehole at 8.0 feet.		

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/6/13  
**BORING COMPLETED:** 8/6/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-12

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0						Concrete			0.0
		GB		0	0		(SC-SM) Tan to orange, clayey SAND		
2.5				0	0				
		GB		0	0				
5.0				0	0				
		GB		0	0				
7.5				0	0				
				0	0				
				0	0				
							Bottom of borehole at 8.0 feet.		

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:33 - S:\AAA-MASTER GINT PROJECTS\IDSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/6/13  
**BORING COMPLETED:** 8/6/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-13/TMW-7

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0						Concrete			0.0
				0	0		(SM) Tan, silty SAND		
		GB		0	0				
2.5				0	0		(SC-SM) Gray to orange, clayey SAND		2.5
				0	0				
		GB		0	0				
5.0				0	0		(SM) Gray, silty SAND, wet @ 5ft		5.0
				0	0				
				0	0				
7.5				0	0				7.5
							Bottom of borehole at 8.0 feet.		

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:33 - S:\AAA-MASTER GINT PROJECTS\IDSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/6/13  
**BORING COMPLETED:** 8/6/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-14

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\IDSO-83.GPJ

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0						Concrete			0.0
				0	0	(SM) Brown, silty SAND			
		GB		0	0	(SC-SM) Tan to orange, clayey SAND			
2.5				0	0				2.5
				0	0				
		GB		0	0	(SC) Brown, clayey SAND, wet @ 7ft			
5.0				0	0				5.0
				0	0				
				0	0	(SC) Gray to brown, clayey SAND			
7.5				0	0				7.5
							Bottom of borehole at 8.0 feet.		

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/6/13  
**BORING COMPLETED:** 8/6/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-15

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0						Concrete			0.0
				0	0	(SM) Brown, silty SAND			
		GB		0	0				
				0	0	(SC-SM) Tan to orange, clayey SAND, wet @ 6ft			
2.5				0	0				2.5
				0	0				
		GB		0	0				
				0	0				
5.0				0	0				5.0
				0	0				
				0	0				
				0	0				
				0	0				
				0	0				
				0	0				
7.5				0	0	(SM) Gray, silty SAND			7.5
							Bottom of borehole at 8.0 feet.		

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\IDSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/6/13  
**BORING COMPLETED:** 8/6/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-16

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0						Asphalt			0.0
				0	0	(SM) Brown, silty SAND			
		GB		0	0	(SM) Tan to gray, silty SAND			
2.5				0	0	(SC-SM) Tan to orange, clayey SAND, moist @ 5ft			2.5
		GB		0	0	(SC-SM) Gray to orange, clayey SAND, wet @ 6ft			
5.0				0	0				5.0
				0	0				
7.5				0	0				7.5
							Bottom of borehole at 8.0 feet.		

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/6/13  
**BORING COMPLETED:** 8/6/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**



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# BORING NUMBER SB-17

**PROJECT:** Scott's Cleaners

**JOB NUMBER:** DSCA ID# 074-0011

**LOCATION:** 1699 Farmville Blvd, Greenville, Pitt County

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
				BKG.	SAMP.				
0.0						Asphalt			0.0
		GB		0	0	(SM) Brown to black, silty SAND			
2.5						(SC) Tan to orange, clayey SAND, moist @ 5ft			2.5
		GB		0	0				
5.0						(SM) Gray, silty SAND, wet @ 6ft			5.0
				0	0				
7.5									7.5
				0	0				
						Bottom of borehole at 8.0 feet.			

WELL LOG - HART HICKMAN.GDT - 10/31/13 11:34 - S:\AAA-MASTER GINT PROJECTS\DSO-83.GPJ

**DRILLING CONTRACTOR:** Quantex  
**DRILL RIG/ METHOD:** Direct Push  
**SAMPLING METHOD:** DPT Sleeves  
**LOGGED BY:** MG  
**DRAWN BY:** MG/BRK

**BORING STARTED:** 8/6/13  
**BORING COMPLETED:** 8/6/13  
**TOTAL DEPTH:** 8 ft.  
**TOP OF CASING ELEV:**  
**DEPTH TO WATER:**

**Remarks:**

**ATTACHMENTS 13A-B**

**13A – SURFICIAL SOIL (<3 FT) PCE ISOCONCENTRATION MAP**

**13B – SUBSURFACE SOIL (>3 FT) PCE CONCENTRATION MAP**



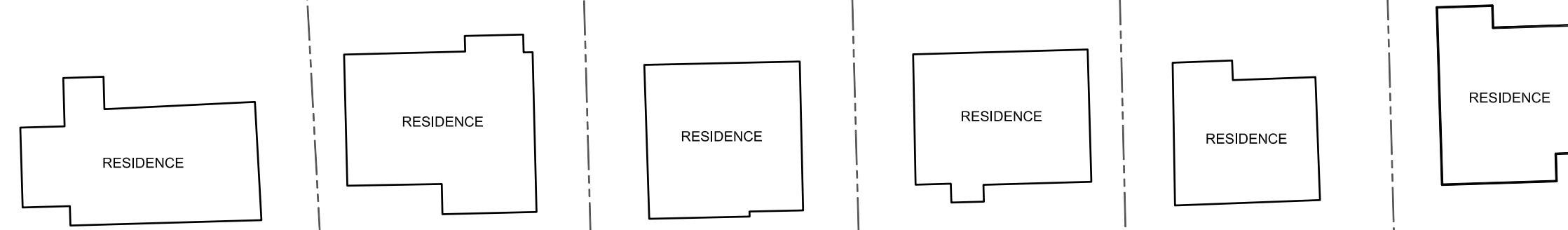
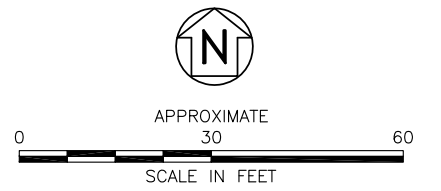
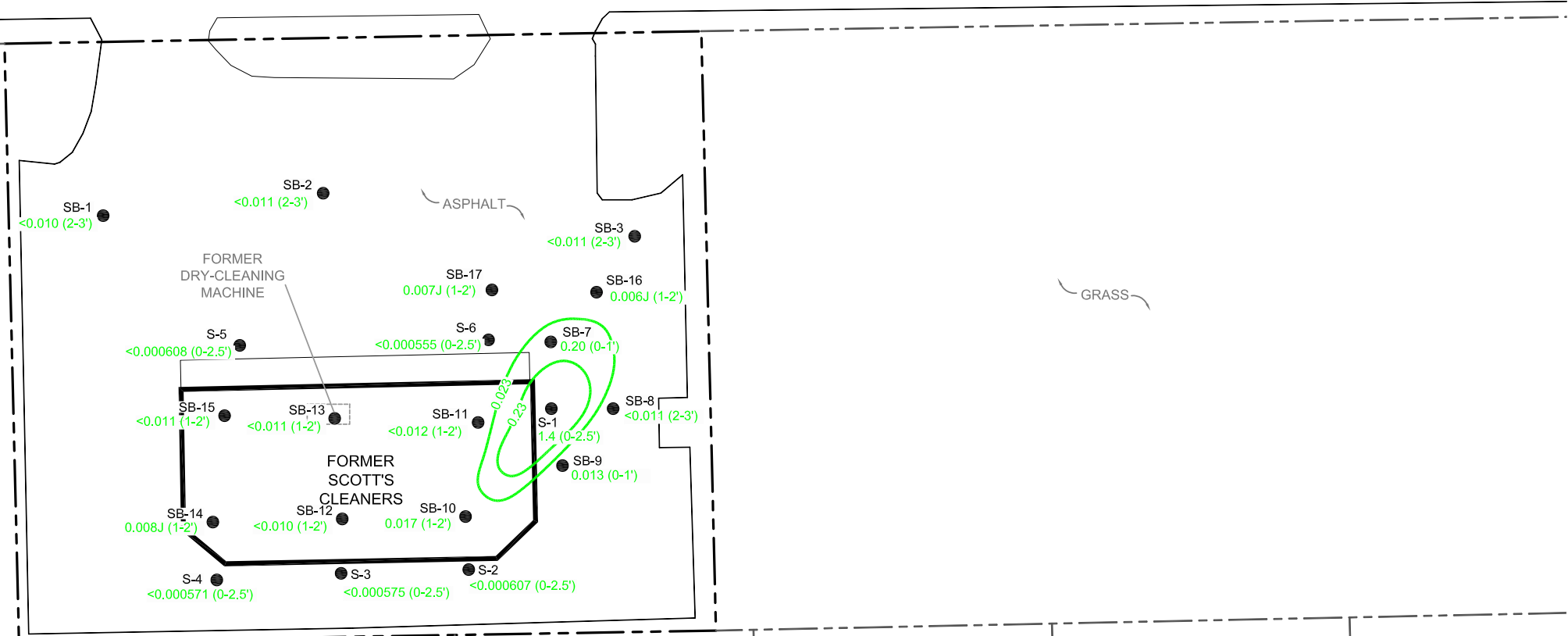
**LEGEND**

- SITE PROPERTY BOUNDARY
- - - - - PROPERTY PARCEL
- SOURCE PROPERTY BOUNDARY
- OFF-SITE BUILDING
- SOIL BORING
- 0.20 (0-1') PCE CONCENTRATION (mg/kg)  
(SAMPLE INTERVAL IN FT BGS)
- 0.023 — PCE ISOCONTOUR LINE (mg/kg)  
(DASHED WHERE INFERRED)

**NOTES:**

1. SOIL SAMPLES SB-1 THROUGH SB-3 AND SB-7 THROUGH SB-17 COLLECTED BY HART & HICKMAN ON 8/6/13 AND 8/7/13.
2. SOIL SAMPLES S-1 THROUGH S-6 COLLECTED BY NCDOT CONTRACTOR IN AUGUST 2012.

FARMVILLE BOULEVARD



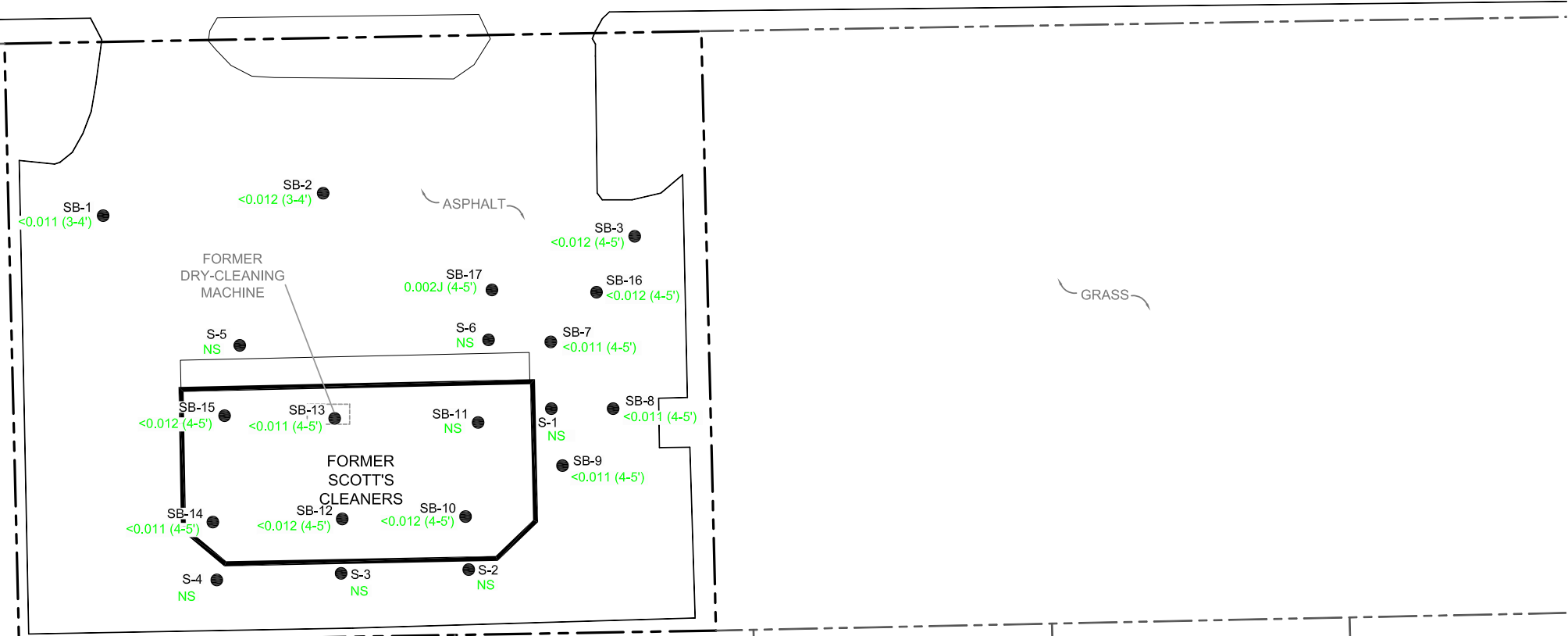
TITLE	SURFICIAL SOIL (<3 FT) PCE ISOCONCENTRATION MAP	
PROJECT	SCOTT'S CLEANERS DSCA SITE NO. 74-0011 1699 FARMVILLE BLVD GREENVILLE, PITT COUNTY	
		2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology
DATE:	10/30/13	REVISION NO. 0
JOB NO.	DS0-83	ATTACHMENT 13A

S:\AAA-Master Projects\DSCA - DS0\DS0-83 Scotts 74-0011\Reports\2013-08\_PANDC740011\_20131105\_Figures.dwg, 11/6/2013 10:17:46 AM, Adobe PDF

**LEGEND**

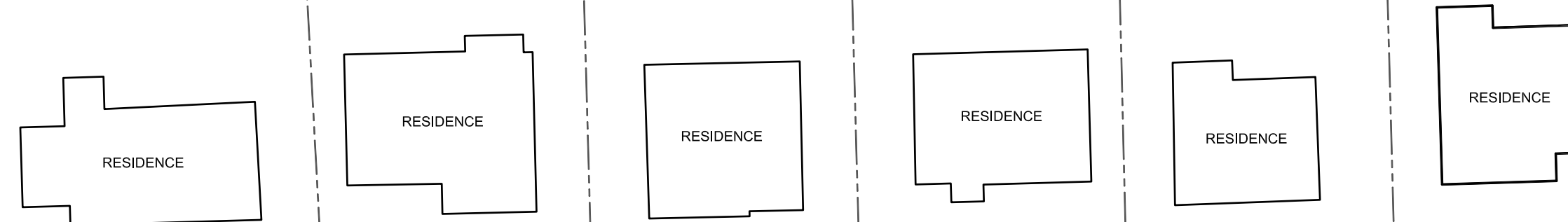
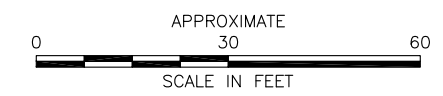
- SITE PROPERTY BOUNDARY
- - - - - PROPERTY PARCEL
- SOURCE PROPERTY BOUNDARY
- OFF-SITE BUILDING
- SOIL BORING
- 0.012 (4-5') PCE CONCENTRATION (mg/kg)  
(SAMPLE INTERVAL IN FT BGS)
- NS NOT SAMPLED

FARMVILLE BOULEVARD



**NOTES:**

1. SOIL SAMPLES SB-1 THROUGH SB-3 AND SB-7 THROUGH SB-17 COLLECTED BY HART & HICKMAN ON 8/6/13 AND 8/7/13.
2. SOIL SAMPLES S-1 THROUGH S-6 COLLECTED BY NCDOT CONTRACTOR IN AUGUST 2012.



TITLE	SUBSURFACE SOIL (>3 FT) PCE CONCENTRATION MAP	
PROJECT	SCOTT'S CLEANERS DSCA SITE NO. 74-0011 1699 FAMRVILLE BLVD GREENVILLE, PITT COUNTY	
	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE:	11/5/13	REVISION NO. 0
JOB NO.	DS0-83	ATTACHMENT 13B

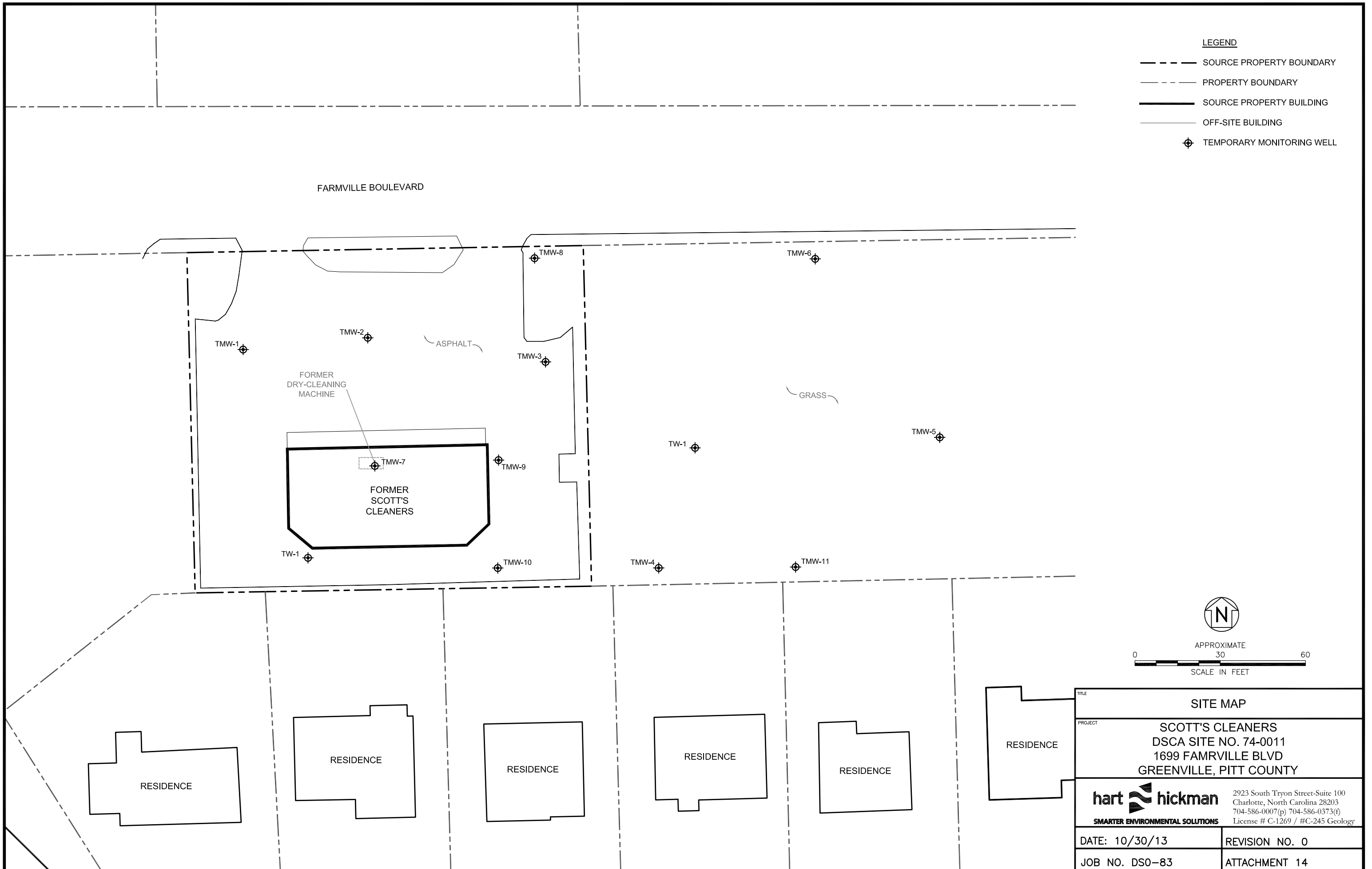
**ATTACHMENT 14**


**SITE MAP**

S:\AAA-Master Projects\DSCA - DS0\DS0-83 Scotts 74-0011\Figures\DC740011\_20130809\_Figures.dwg ATT 14 (SITE) 11/15/2013 2:37:39 PM

**LEGEND**

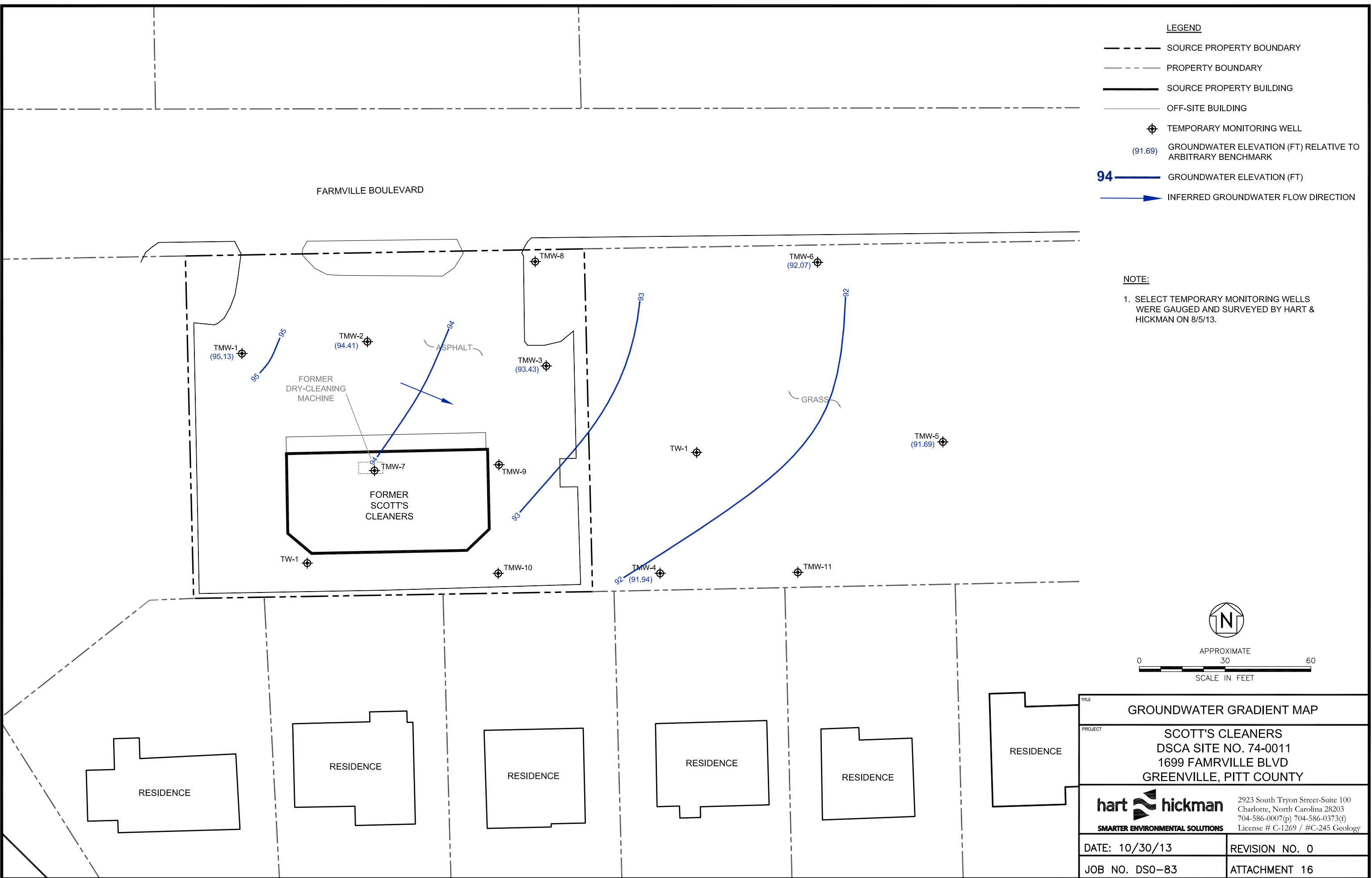
- SOURCE PROPERTY BOUNDARY
- - - PROPERTY BOUNDARY
- ▬ SOURCE PROPERTY BUILDING
- OFF-SITE BUILDING
- ⊕ TEMPORARY MONITORING WELL




TITLE <b>SITE MAP</b>	
PROJECT SCOTT'S CLEANERS DSCA SITE NO. 74-0011 1699 FARMVILLE BLVD GREENVILLE, PITT COUNTY	
 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 10/30/13	REVISION NO. 0
JOB NO. DS0-83	ATTACHMENT 14

**ATTACHMENT 16**  
**GROUNDWATER GRADIENT MAP**

S:\AAA-Master Projects\DSCA - DS0\DS0-83 Scotts 74-0011\Figures\DC740011\_20130809\_Figures.dwg ATT 16 GW GRADIENT. 11/5/2013 2:37:54 PM

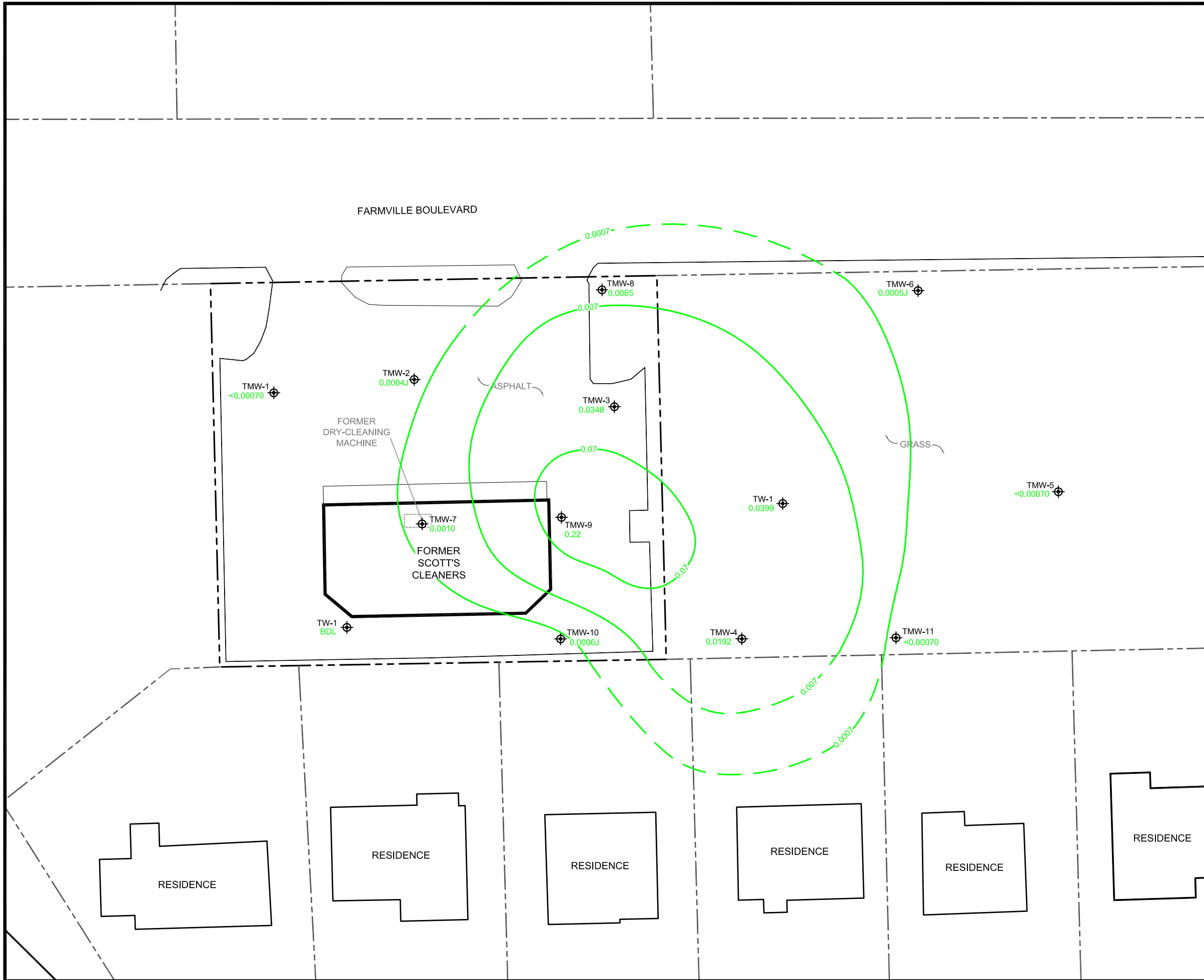


TITLE <b>GROUNDWATER GRADIENT MAP</b>	
PROJECT <b>SCOTT'S CLEANERS DSCA SITE NO. 74-0011 1699 FAMRVILLE BLVD GREENVILLE, PITT COUNTY</b>	
 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 10/30/13	REVISION NO. 0
JOB NO. DS0-83	ATTACHMENT 16

**ATTACHMENTS 17**

**GROUNDWATER PCE ISOCONCENTRATION MAP**

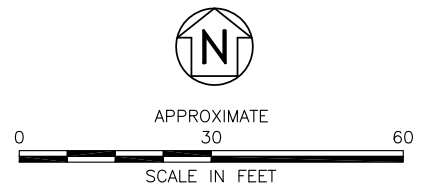
\\hvsr\hart\hickman\local\masterfiles\AAA-Master Projects\DSCA - DSO\DS0-83 Scotts 74-0011\Reports\2013-08\_PA\DC740011\_20131105\_Figures.dwg, 11/5/2013 3:52:09 PM, Adobe PDF




**LEGEND**

- SOURCE PROPERTY BOUNDARY
- - - PROPERTY BOUNDARY
- SOURCE PROPERTY BUILDING
- OFF-SITE BUILDING
- ⊕ TEMPORARY MONITORING WELL
- 0.22 PCE CONCENTRATION (mg/L)
- BDL BELOW DETECTION LIMIT
- 0.0007 PCE ISOCONTOUR IN mg/L (DASHED WHERE INFERRED)

- NOTES:**
- TEMPORARY MONITORING WELLS TMW-1 THROUGH TMW-11 COLLECTED ON 8/7/13 AND 8/9/13 BY HART & HICKMAN.
  - TEMPORARY MONITORING WELLS TW-1 (ON-SITE) AND TW-1 (OFF-SITE) COLLECTED BY NCDOT CONTRACTOR IN AUGUST 2012.



TITLE <b>GROUNDWATER PCE ISOCONCENTRATION MAP</b>	
PROJECT <b>SCOTT'S CLEANERS DSCA SITE NO. 74-0011 1699 FAMRVILLE BLVD GREENVILLE, PITT COUNTY</b>	
 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 11/5/13	REVISION NO. 0
JOB NO. DS0-83	ATTACHMENT 17



**ATTACHMENT 21**  
**LABORATORY ANALYTICAL REPORT**



**KB LABS, INC.**  
6821 SW Archer Road  
Gainesville, Florida 32608

**Telephone (352) 367-0073**

**Fax (352) 378-6491**

Email: [info@kbmobilelabs.com](mailto:info@kbmobilelabs.com)

August 14, 2013

Tim Klotz  
Hart & Hickman  
3334 Hillsborough Street  
Raleigh, NC 27607

**RE: Scott's Cleaners #2 Farmville, Greenville, NC - Final Data Report  
KB Labs Project # 13-118**

Dear Mr. Klotz:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from August 6 to 11, 2013. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratory (KB-2) has been inspected by the North Carolina Department of Environment and Natural Resources and is certified by the Division of Water Quality. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of 15 NCAC 2B.0500, 2H.0900 and 2L .0100, .0200, .0300, and 2N .0100 through .0800 and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NCDENR and NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero  
Director of Operations

*"KB Labs is a small, woman-owned business enterprise."*



KB Labs, Inc.  
6821 SW Archer Road  
Gainesville, FL 32608  
Phone: 352-367-0073  
Fax: 352-378-6491  
Email: [info@kbmobilelabs.com](mailto:info@kbmobilelabs.com)

## **PROJECT NARRATIVE**

### **Project Scope**

From August 6 to 10, 2013, a total of 40 samples (28 soils and 12 water) were analyzed for Hart & Hickman at Scott's Cleaners #2 Farmville, Greenville, NC. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, tetrachloroethene, benzene, toluene, ethylbenzene, xylenes, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene.

### **NELAP Certification**

KB Mobile Labs Unit KB2: NCDENR Certification Number 632  
KB Labs: (% Solids)

### **Analytical Procedure**

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

The soil samples were analyzed using SW846 Method 5030/8260. One (1) gram (g) of soil sample was added to 10 mL of laboratory reagent water, heated and analyzed like a water sample as described above.

Soil data are corrected for percent solid values supplied by KB Labs.

### **Analytical Results**

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

### **Uncertainty of Reported Values**

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation

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from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as  $\pm 3$  times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L. For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

### **Quality Control (QC) Data**

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

---

## **DATA REPORT NARRATIVE**

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding, sample weights, and significant figures.
2. Values between KB Labs Reporting Limit (RL) and Method Detection Limit (MDL) are reported per NCDENR DSCA requirements. All data indicated with J Data Qualifier.

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**KB LABS, INC.**

**Table 1: Analytical Run Sequence/Surrogate Percent Recoveries**

<b>Client:</b> Hart & Hickman	<b>Driller/Sampler:</b> Hart & Hickman	<b>Analyst:</b> Bob George
<b>Site:</b> Scotts Cleaners Farmville	<b>KB Labs Project Manager:</b> Kelly Bergdoll	<b>KB Labs Project No:</b> 13-118
<b>On-site Dates:</b> 8/6/13-8/10/13	<b>Client Project Manager:</b> Tim Klotz	<b>Matrix:</b> Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
TUNE	08/06/13	103	92	106	101	Pass	Pass	Pass	Pass
CCS 50	08/06/13	100	93	102	100	Pass	Pass	Pass	Pass
SOIL LCS 20	08/06/13	95	83	105	101	Pass	Pass	Pass	Pass
SOIL BLANK	08/06/13	96	81	105	102	Pass	Pass	Pass	Pass
2080313-01A(SB-1 2-3)	08/06/13	100	84	110	109	Pass	Pass	Pass	Pass
2080313-02A(SB-2 2-3)	08/06/13	94	80	106	101	Pass	Pass	Pass	Pass
2080313-03A(SB-3 2-3)	08/06/13	96	83	106	103	Pass	Pass	Pass	Pass
2080313-07A(SB-7 0-1)	08/06/13	109	96	101	110	Pass	Pass	Pass	Pass
2080313-08A(SB-8 2-3)	08/06/13	94	83	106	106	Pass	Pass	Pass	Pass
2080313-09A(SB-9 0-1)	08/06/13	98	88	109	106	Pass	Pass	Pass	Pass
2080313-16A(SB-1 3-4)	08/06/13	103	92	107	110	Pass	Pass	Pass	Pass
2080313-17A(SB-2 3-4)	08/06/13	93	82	108	104	Pass	Pass	Pass	Pass
2080313-18A(SB-3 4-5)	08/06/13	94	83	109	102	Pass	Pass	Pass	Pass
2080313-19A(SB-7 4-5)	08/06/13	102	90	107	102	Pass	Pass	Pass	Pass
2080313-20A(SB-8 4-5)	08/06/13	94	85	110	105	Pass	Pass	Pass	Pass
2080313-21A(SB-9 4-5)	08/06/13	94	86	107	101	Pass	Pass	Pass	Pass
2080313-22A(SB-10 1-2)	08/06/13	102	88	112	106	Pass	Pass	Pass	Pass
2080313-24A(SB-11 1-2)	08/06/13	89	81	111	107	Pass	Pass	Pass	Pass
2080313-25A(SB-12 1-2)	08/06/13	94	88	105	103	Pass	Pass	Pass	Pass
2080313-26A(SB-12 4-5)	08/06/13	101	92	108	106	Pass	Pass	Pass	Pass
2080313-27A(SB-13 1-2)	08/06/13	101	91	107	104	Pass	Pass	Pass	Pass
2080313-28A(SB-13 4-5)	08/06/13	96	87	100	100	Pass	Pass	Pass	Pass
2080313-29A(SB-14 1-2)	08/06/13	97	88	110	114	Pass	Pass	Pass	Pass
2080313-29A(SB-14 1-2)MS	08/06/13	93	84	112	112	Pass	Pass	Pass	Pass
2080313-29A(SB-14 1-2)MSD	08/06/13	88	80	109	100	Pass	Pass	Pass	Pass
CCS 50	08/06/13	90	87	104	102	Pass	Pass	Pass	Pass
SOIL LCS 20	08/06/13	90	88	105	100	Pass	Pass	Pass	Pass
SOIL BLANK	08/06/13	92	91	103	105	Pass	Pass	Pass	Pass
2080613-23A (SB-10 4-5)	08/06/13	90	89	105	106	Pass	Pass	Pass	Pass
2080613-30A (SB-14 4-5)	08/06/13	95	90	104	104	Pass	Pass	Pass	Pass
2080613-31A (SB-15 1-2)	08/06/13	100	95	113	118	Pass	Pass	Pass	Pass
2080613-32A (SB-15 4-5)	08/06/13	95	90	103	106	Pass	Pass	Pass	Pass
2080613-34A (SB-16 1-2)	08/06/13	98	93	104	106	Pass	Pass	Pass	Pass
2080613-35A (SB-16 4-5)	08/06/13	97	94	102	104	Pass	Pass	Pass	Pass
2080613-37A (SB-17 4-5)	08/06/13	100	95	103	103	Pass	Pass	Pass	Pass
2080613-32A(SB-16 4-5)MS	08/06/13	92	88	104	100	Pass	Pass	Pass	Pass
2080613-32A(SB-16 4-5)MSD	08/06/13	97	93	114	110	Pass	Pass	Pass	Pass
CCS 50	08/06/13	90	85	107	102	Pass	Pass	Pass	Pass

**\*Surrogate Compounds:**

- S1 = Dibromofluoromethane (83% - 125%)
- S2 = 1,2- Dichloroethane-D4 (74% - 130%)
- S3 = Toluene-D8 (87% - 114%)
- S4 = 4-Bromofluorobenzene (71% - 131%)

**KB LABS, INC.**

**Table 1: Analytical Run Sequence/Surrogate Percent Recoveries**

<b>Client:</b> Hart & Hickman	<b>Driller/Sampler:</b> Hart & Hickman	<b>Analyst:</b> Bob George
<b>Site:</b> Scotts Cleaners Farmville	<b>KB Labs Project Manager:</b> Kelly Bergdoll	<b>KB Labs Project No:</b> 13-118
<b>On-site Dates:</b> 8/6/13-8/10/13	<b>Client Project Manager:</b> Tim Klotz	<b>Matrix:</b> Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
TUNE	08/07/13	121	119	91	95	Pass	Pass	Pass	Pass
CCS 50	08/07/13	98	84	108	100	Pass	Pass	Pass	Pass
LCS 20	08/07/13	101	93	105	100	Pass	Pass	Pass	Pass
BLANK	08/07/13	100	88	106	104	Pass	Pass	Pass	Pass
2080613-36A(SB-17 1-2')	08/07/13	99	85	110	108	Pass	Pass	Pass	Pass
2080613-10A(TMW-1)	08/07/13	100	87	106	106	Pass	Pass	Pass	Pass
2080613-11A(TMW-2)	08/07/13	101	90	106	107	Pass	Pass	Pass	Pass
2080613-12A(TMW-3)	08/07/13	99	83	106	102	Pass	Pass	Pass	Pass
2080613-13A(TMW-4)	08/07/13	97	84	107	103	Pass	Pass	Pass	Pass
2080613-14A(TMW-5)	08/07/13	100	87	114	113	Pass	Pass	Pass	Pass
2080613-15A(TMW-6)	08/07/13	96	84	106	103	Pass	Pass	Pass	Pass
2080613-33A(TMW-7)	08/07/13	98	84	105	102	Pass	Pass	Pass	Pass
2080613-15B(TMW-6) MS	08/07/13	95	85	108	98	Pass	Pass	Pass	Pass
2080613-15B(TMW-6) MSD	08/07/13	93	82	105	97	Pass	Pass	Pass	Pass
CCS 50	08/07/13	95	92	104	100	Pass	Pass	Pass	Pass
TUNE 50	08/09/13	106	96	98	98	Pass	Pass	Pass	Pass
CCS 50	08/09/13	97	89	98	98	Pass	Pass	Pass	Pass
LCS 20	08/09/13	106	99	97	98	Pass	Pass	Pass	Pass
BLANK	08/09/13	108	97	97	99	Pass	Pass	Pass	Pass
SOIL LCS 20	08/09/13	107	104	97	96	Pass	Pass	Pass	Pass
SOIL BLANK	08/09/13	103	90	100	101	Pass	Pass	Pass	Pass
2080913-28A (IDW-1 SOIL)	08/09/13	100	91	98	103	Pass	Pass	Pass	Pass
2080913-23A(TMW-8)	08/09/13	102	91	98	101	Pass	Pass	Pass	Pass
2080913-24A(TMW-9) 1:5	08/09/13	103	91	96	100	Pass	Pass	Pass	Pass
2080913-25A(TMW-10)	08/09/13	106	94	96	101	Pass	Pass	Pass	Pass
2080913-26A(TMW-11)	08/09/13	101	93	99	99	Pass	Pass	Pass	Pass
2080913-27A(IDW-1)	08/09/13	111	98	92	99	Pass	Pass	Pass	Pass
CCS 50	08/09/13	100	91	99	100	Pass	Pass	Pass	Pass
TUNE 50	08/10/13	115	96	95	102	Pass	Pass	Pass	Pass
CCS 50	08/10/13	105	91	97	96	Pass	Pass	Pass	Pass
LCS 20	08/10/13	105	93	97	95	Pass	Pass	Pass	Pass
BLANK	08/10/13	102	89	95	99	Pass	Pass	Pass	Pass
2080913-26B (TMW-11)MS	08/10/13	107	95	96	94	Pass	Pass	Pass	Pass
2080913-26B (TMW-11)MSD	08/10/13	109	103	94	95	Pass	Pass	Pass	Pass
CCS 50	08/10/13	100	91	94	98	Pass	Pass	Pass	Pass

**Comments:** Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

**\*Surrogate Compounds:**  
 S1 = Dibromofluoromethane (83% - 125%)  
 S2 = 1,2- Dichloroethane-D4 (74% - 130%)  
 S3 = Toluene-D8 (87% - 114%)  
 S4 = 4-Bromofluorobenzene (71% - 131%)

**KB LABS, INC.**

**Table 2: VOC Spike Compound Percent Recoveries**

<b>Client:</b> Hart & Hickman	<b>Driller/Sampler:</b> Hart & Hickman	<b>Analyst:</b> Bob George
<b>Site:</b> Scotts Cleaners #2 Farmville	<b>KB Labs Project Manager:</b> Kelly Bergdoll	<b>KB Labs Project No.:</b> 13-118
<b>Onsite Dates:</b> 8/6/13-8/10/13	<b>Client Project Manager:</b> Tim Klotz	<b>Matrix:</b> Water/Soil

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

<b>Samples:</b> 2080313-29A(SB-14 1-2)			<b>Date of Analysis:</b> 8/6/13						
Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	68	66	3	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	72	68	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	71	69	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	75	72	3	Pass	Pass	Pass
Benzene	71	123	20	81	80	1	Pass	Pass	Pass
Trichloroethene	64	134	20	69	73	6	Pass	Pass	Pass
Toluene	67	130	20	90	88	3	Pass	Pass	Pass
Tetrachloroethene	54	140	20	83	83	0	Pass	Pass	Pass
Ethylbenzene	69	125	20	115	94	20	Pass	Pass	> RPD
m,p-Xylene	63	144	20	118	97	20	Pass	Pass	Pass
o-Xylene	74	125	20	127	103	20	> UCL	Pass	> RPD
1,3,5-Trimethylbenzene	64	133	20	100	92	9	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	101	94	7	Pass	Pass	Pass

**Note:** Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

<b>Samples:</b> 2080613-35A(SB-16 4-5)			<b>Date of Analysis:</b> 8/6/2013						
Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	81	85	5	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	89	92	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	85	89	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	82	88	7	Pass	Pass	Pass
Benzene	71	123	20	93	94	1	Pass	Pass	Pass
Trichloroethene	64	134	20	90	85	6	Pass	Pass	Pass
Toluene	67	130	20	97	104	6	Pass	Pass	Pass
Tetrachloroethene	54	140	20	98	101	3	Pass	Pass	Pass
Ethylbenzene	69	125	20	104	127	20	Pass	> UCL	Pass
m,p-Xylene	63	144	20	109	129	17	Pass	Pass	Pass
o-Xylene	74	125	20	114	139	20	Pass	> UCL	Pass
1,3,5-Trimethylbenzene	64	133	20	105	112	6	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	106	111	5	Pass	Pass	Pass

**Note:** Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

**KB LABS, INC.**

**Table 2: VOC Spike Compound Percent Recoveries**

<b>Client:</b> Hart & Hickman	<b>Driller/Sampler:</b> Hart & Hickman	<b>Analyst:</b> Bob George
<b>Site:</b> Scotts Cleaners #2 Farmville	<b>KB Labs Project Manager:</b> Kelly Bergdoll	<b>KB Labs Project No.:</b> 13-118
<b>Onsite Dates:</b> 8/6/13-8/10/13	<b>Client Project Manager:</b> Tim Klotz	<b>Matrix:</b> Water/Soil

<b>Samples:</b> 2080613-15A(TMW-6)			<b>Date of Analysis:</b> 8/7/2013						
Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	73	75	4	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	88	89	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	85	86	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	84	88	5	Pass	Pass	Pass
Benzene	71	123	20	87	91	4	Pass	Pass	Pass
Trichloroethene	64	134	20	80	84	5	Pass	Pass	Pass
Toluene	67	130	20	93	95	2	Pass	Pass	Pass
Tetrachloroethene	54	140	20	93	94	2	Pass	Pass	Pass
Ethylbenzene	69	125	20	97	100	3	Pass	Pass	Pass
m,p-Xylene	63	144	20	100	103	2	Pass	Pass	Pass
o-Xylene	74	125	20	108	111	3	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	96	99	4	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	99	103	4	Pass	Pass	Pass

**Note:** Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

<b>Samples:</b> 2080913-26A(TMW-11)			<b>Date of Analysis:</b> 8/9/2013						
Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	104	111	6	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	122	128	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	112	119	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	120	130	8	Pass	Pass	Pass
Benzene	71	123	20	128	138	7	> UCL	> UCL	Pass
Trichloroethene	64	134	20	122	130	6	Pass	Pass	Pass
Toluene	67	130	20	121	127	5	Pass	Pass	Pass
Tetrachloroethene	54	140	20	123	130	6	Pass	Pass	Pass
Ethylbenzene	69	125	20	120	125	5	Pass	> UCL	Pass
m,p-Xylene	63	144	20	124	130	5	Pass	Pass	Pass
o-Xylene	74	125	20	131	136	4	> UCL	> UCL	Pass
1,3,5-Trimethylbenzene	64	133	20	122	127	4	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	125	131	4	Pass	Pass	Pass

**Note:** Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.



**KB LABS, INC.**

**Table 2: VOC Spike Compound Percent Recoveries**

<b>Client:</b> Hart & Hickman	<b>Driller/Sampler:</b> Hart & Hickman	<b>Analyst:</b> Bob George
<b>Site:</b> Scotts Cleaners #2 Farmville	<b>KB Labs Project Manager:</b> Kelly Bergdoll	<b>KB Labs Project No.:</b> 13-118
<b>Onsite Dates:</b> 8/6/13-8/10/13	<b>Client Project Manager:</b> Tim Klotz	<b>Matrix:</b> Water/Soil

**Laboratory Control Spikes (LCS):**


<b>Samples:</b>	SOIL LCS 1	<b>Date of Analysis:</b>	8/6/2013					
	SOIL LCS 2		8/6/2013					
	LCS 3		8/7/2013					
Spike Compounds	Control Limits		Percent Recoveries			Control Limit Checks		
	Lower	Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	37	to 158	75	85	97	Pass	Pass	Pass
1,1-Dichloroethene	52	to 147	100	84	129	Pass	Pass	Pass
Trans-1,2-Dichloroethene	51	to 148	96	85	126	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	to 142	92	88	115	Pass	Pass	Pass
Benzene	71	to 130	90	101	111	Pass	Pass	Pass
Trichloroethene	69	to 132	84	97	103	Pass	Pass	Pass
Toluene	70	to 134	93	102	113	Pass	Pass	Pass
Tetrachloroethene	58	to 145	96	104	113	Pass	Pass	Pass
Ethylbenzene	74	to 134	103	112	121	Pass	Pass	Pass
m,p-Xylene	70	to 146	105	114	123	Pass	Pass	Pass
o-Xylene	71	to 139	114	122	132	Pass	Pass	Pass
1,3,5-Trimethylbenzene	75	to 133	102	109	119	Pass	Pass	Pass
1,2,4-Trimethylbenzene	70	to 139	105	110	122	Pass	Pass	Pass

**Note:** Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.


<b>Samples:</b>	LCS 4	<b>Date of Analysis:</b>	8/9/2013					
	SOIL LCS 5		8/9/2013					
	LCS 6		8/10/2013					
Spike Compounds	Control Limits		Percent Recoveries			Control Limit Checks		
	Lower	Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	37	to 158	109	110	86	Pass	Pass	Pass
1,1-Dichloroethene	52	to 147	129	137	100	Pass	Pass	Pass
Trans-1,2-Dichloroethene	51	to 148	122	128	96	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	to 142	121	129	102	Pass	Pass	Pass
Benzene	71	to 130	124	131	106	Pass	> UCL	Pass
Trichloroethene	69	to 132	119	124	101	Pass	Pass	Pass
Toluene	70	to 134	118	127	101	Pass	Pass	Pass
Tetrachloroethene	58	to 145	120	128	101	Pass	Pass	Pass
Ethylbenzene	74	to 134	123	129	101	Pass	Pass	Pass
m,p-Xylene	70	to 146	127	134	105	Pass	Pass	Pass
o-Xylene	71	to 139	135	142	113	Pass	> UCL	Pass
1,3,5-Trimethylbenzene	75	to 133	125	131	103	Pass	Pass	Pass
1,2,4-Trimethylbenzene	70	to 139	126	133	106	Pass	Pass	Pass

**Note:** Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.


**Final Data Report**  
 Hart-Hickman  
 Scotts Cleaners Farmville  
 Greenville, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	Method Blank	SB-1 2-3'	SB-2 2-3'	SB-3 2-3'	SB-7 0-1'	SB-8 2-3'	SB-9 0-1'	SB-1 3-4'	SB-2 3-4'	SB-3 4-5'
<b>Analysis Date</b>	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
<b>Matrix</b>	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Dilution</b>	1	1	1	1	1	1	1	1	1	1
<b>% solids</b>	NA	<b>90.6</b>	<b>87.8</b>	<b>90.3</b>	<b>88.2</b>	<b>91.2</b>	<b>87.7</b>	<b>91.2</b>	<b>83.8</b>	<b>84.7</b>
<b>Units</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
1,1-Dichloroethene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
t-1,2-Dichloroethene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
c-1,2-Dichloroethene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	<b>0.010 J</b>	<b>0.034</b>	0.011 U	0.012 U	0.012 U
Benzene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
Trichloroethene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
Toluene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
Tetrachloroethene	0.010 U	0.011 U	0.011 U	0.011 U	<b>0.20</b>	0.011 U	<b>0.013</b>	0.011 U	0.012 U	0.012 U
Ethylbenzene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
m,p-Xylene	0.020 U	0.022 U	0.023 U	0.022 U	0.023 U	0.022 U	0.023 U	0.022 U	0.024 U	0.024 U
o-Xylene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
1,3,5-Trimethylbenzene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U
1,2,4-Trimethylbenzene	0.010 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U


**Final Data Report**  
 Hart-Hickman  
 Scotts Cleaners Farmville  
 Greenville, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-7 4-5'	SB-8 4-5'	SB-9 4-5'	SB-10 1-2'	SB-10 4-5'	SB-11 1-2'	SB-12 1-2'	SB-12 4-5'	SB-13 1-2'	SB-13 4-5'
<b>Analysis Date</b>	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
<b>Matrix</b>	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Dilution</b>	1	1	1	1	1	1	1	1	1	1
<b>% solids</b>	<b>87.1</b>	<b>87.9</b>	<b>88.6</b>	<b>89.8</b>	<b>83.7</b>	<b>84.5</b>	<b>85.7</b>	<b>86.9</b>	<b>88.8</b>	<b>88.2</b>
<b>Units</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
1,1-Dichloroethene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
t-1,2-Dichloroethene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
c-1,2-Dichloroethene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
Benzene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
Trichloroethene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
Toluene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
Tetrachloroethene	0.011 U	0.011 U	0.011 U	<b>0.017</b>	<b>0.012 U</b>	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
Ethylbenzene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
m,p-Xylene	0.023 U	0.023 U	0.023 U	0.022 U	0.024 U	0.024 U	0.023 U	0.023 U	0.023 U	0.023 U
o-Xylene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
1,3,5-Trimethylbenzene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U
1,2,4-Trimethylbenzene	0.011 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.011 U


**Final Data Report**  
 Hart-Hickman  
 Scotts Cleaners Farmville  
 Greenville, NC

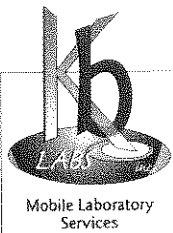
	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-14 1-2'	SB-14 4-5'	SB-15 1-2'	SB-15 4-5'	SB-16 1-2'	SB-16 4-5'	SB-17 1-2'	SB-17 4-5'	IDW-1 soil
<b>Analysis Date</b>	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/7/2013	8/6/2013	8/9/2013
<b>Matrix</b>	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<b>Dilution</b>	1	1	1	1	1	1	1	1	1
<b>% solids</b>	<b>86.5</b>	<b>88.0</b>	<b>87.2</b>	<b>84.0</b>	<b>89.5</b>	<b>83.7</b>	<b>87.4</b>	<b>82.5</b>	<b>84.6</b>
<b>Units</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
1,1-Dichloroethene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
t-1,2-Dichloroethene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
c-1,2-Dichloroethene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
Benzene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
Trichloroethene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
Toluene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
Tetrachloroethene	<b>0.008 J</b>	0.011 U	0.011 U	0.012 U	<b>0.006 J</b>	0.012 U	<b>0.007 J</b>	<b>0.002 J</b>	0.012 U
Ethylbenzene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
m,p-Xylene	0.023 U	0.023 U	0.023 U	0.024 U	0.022 U	0.024 U	0.023 U	0.024 U	0.024 U
o-Xylene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
1,3,5-Trimethylbenzene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
1,2,4-Trimethylbenzene	0.012 U	0.011 U	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U

**Final Data Report**  
 Hart-Hickman  
 Scotts Cleaners Farmville  
 Greenville, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	Method Blank	TMW-1	TMW-2	TMW-3	TMW-4	TMW-5	TMW-6	TMW-7	TMW-8
<b>Analysis Date</b>	08/07/13	08/07/13	08/07/13	08/07/13	08/07/13	08/07/13	08/07/13	08/07/13	08/09/13
<b>Matrix</b>	Water	Water	Water	Water	Water	Water	Water	Water	Water
<b>Dilution</b>	1	1	1	1	1	1	1	1	1
<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Vinyl Chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
t-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
c-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	<b>0.9 J</b>	<b>0.4 J</b>	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	<b>0.7 J</b>	<b>0.4 J</b>	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	0.7 U	0.7 U	<b>0.4 J</b>	<b>34.8</b>	<b>19.2</b>	0.7 U	<b>0.5 J</b>	<b>1.0</b>	<b>6.5</b>
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	<b>0.6 J</b>
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	<b>0.3 J</b>
1,3,5-Trimethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

**Final Data Report**  
 Hart-Hickman  
 Scotts Cleaners Farmville  
 Greenville, NC

	Sample ID	Sample ID	Sample ID
	TMW-9	TMW-10	TMW-11
<b>Analysis Date</b>	08/09/13	08/09/13	08/09/13
<b>Matrix</b>	Water	Water	Water
<b>Dilution</b>	5	1	1
<b>Units</b>	ug/L	ug/L	ug/L
Vinyl Chloride	5.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5.0 U	1.0 U	1.0 U
t-1,2-Dichloroethene	5.0 U	1.0 U	1.0 U
c-1,2-Dichloroethene	<b>55</b>	1.0 U	1.0 U
Benzene	5.0 U	1.0 U	1.0 U
Trichloroethene	<b>22</b>	1.0 U	1.0 U
Toluene	5.0 U	<b>2.9</b>	<b>0.4 J</b>
Tetrachloroethene	<b>220</b>	<b>0.6 J</b>	0.7 U
Ethylbenzene	5.0 U	<b>2.1</b>	1.0 U
m,p-Xylene	10 U	<b>12.8</b>	2.0 U
o-Xylene	5.0 U	<b>6.5</b>	<b>0.2 J</b>
1,3,5-Trimethylbenzene	5.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5.0 U	1.0 U	1.0 U



6821 SW Archer Road  
Gainesville, FL 32608  
TEL (352) 367-0073 · FAX (352) 378-6491

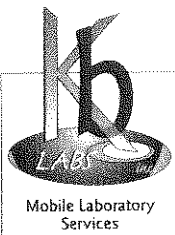
# CHAIN-OF-CUSTODY RECORD

6701 Conference Drive  
Raleigh, NC 27607  
TEL (352) 538-6507

1/3  
MOBILE UNIT #  
FB2

CLIENT NAME		PROJECT NAME & ADDRESS						SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS		PRESERVATION		
Haub & Hickman		Scotts Cleaners # 2 Greenville, NC								Volatiles No solids			C	Chilled
SAMPLERS		CONTACT PERSON				BATCH # (Lab Use Only)							H	HCL
SAMPLE FIELD ID. \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	2080613 COMMENT / SAMPLE PRE FIX						
SB-1	2-3' bgs	8/5/13			8/6/13	0910		S	1	✓	✓	01A		
SB-2	2-3					0910		S	1	✓	✓	02A		
SB-3	2-3					0910		S	1	✓	✓	03A		
SB-4	2-3					0910		S	1	✓	✓	04A (Hold)		
SB-5	2-3					0910		S	1	✓	✓	05A (Hold)		
SB-6	2-3					0910		S	1	✓	✓	06A (Hold)		
SB-7	0-1					0910		S	1	✓	✓	07A		
SB-8	2-3					0910		S	1	✓	✓	08A		
SB-9	0-1					0910		S	1	✓	✓	09A		
TMW-1						0910		GW	2	✓		10A, 10B		
TMW-2						0910		GW	2	✓		11A, 11B		
TMW-3						0910		GW	2	✓		12A, 12B		
TMW-4						0910		GW	2	✓		13A, 13B		
TMW-5		8/6/13				1003		GW	2	✓		14A, 14B		
TMW-6		8/6/13				1003		GW	2	✓		15A, 15B		
Precleaned Containers Relinquished by: (Signature)		Date / Time		Received by: (Signature)				Date / Time		Remarks and Observations				
				BKH				8/6/13		Samples collected on 8/5 mid @ 6'C.				
Relinquished by: (Signature)		Date / Time		Received by: (Signature)				Date / Time						

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas



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# CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #  
**KB2**

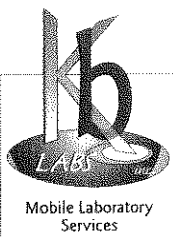
2/3

CLIENT NAME		PROJECT NAME & ADDRESS						SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS		PRESERVATION
Hart # Hickman		Scott #2 Greenville, NC										
SAMPLERS		CONTACT PERSON				BATCH # (Lab Use Only)						
SAMPLE FIELD ID. \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.			Volatiles	90 solids	2080613
												COMMENT / SAMPLE PRE FIX
SB-1 3-4	8/5/13	0955			8/6/13	1025		S	1	✓	✓	16A
SB-2 3-4		1020				1025		S	1	✓	✓	17A
SB-3 4-5		1055				1025		S	1	✓	✓	18A
SB-7 4-5		1255				1025		S	1	✓	✓	19A
SB-8 4-5		1305				1025		S	1	✓	✓	20A
SB-9 4-5		1315				1025		S	1	✓	✓	21A
SB-10 1-2	8/6/13	1130				1138		S	1	✓	✓	22A
SB-10 4-5		1135				1138		S	1	✓	✓	23A
SB-11 1-2		1220				1225		S	1	✓	✓	24A
SB-12 1-2		1245				1255		S	1	✓	✓	25A
SB-12 4-5		1250				1255		S	1	✓	✓	26A
SB-13 1-2		1310				1315		S	1	✓	✓	27A
SB-13 4-5		1315				1315		S	1	✓	✓	28A
SB-14 1-2		1330				1340		S	1	✓	✓	29A
SB-14 4-5		1340				1340		S	1	✓	✓	30A

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas





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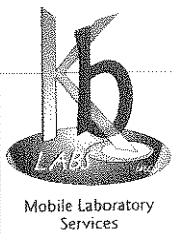
3/3

**MOBILE UNIT #**  
KR2

CLIENT NAME		PROJECT NAME & ADDRESS					SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS		PRESERVATION	
Hart # Hickman		Scotts # 2 Greenville, NC										
SAMPLERS		CONTACT PERSON			BATCH # (Lab Use Only)							
SAMPLE FIELD ID. \ NUMBER		DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D						TIME REC'D
											COMMENT / SAMPLE PRE FIX	
SB-15	1-2	8/6/13	1405			8/6/13	1415	S	1	✓	✓	31A
SB-15	4-5	8/6/13	1415			8/6/13	1415	S	1	✓	✓	32A
TMW-7		8/6/13	1430			8/6/13	1430	67	2	✓	✓	33A, 33B
SB-16	1-2	I	1500			I	1520	S	1	✓	✓	34A
SB-16	4-5	I	1505			I	1520	S	1	✓	✓	35A
SB-17	1-2	I	1510			I	1520	S	1	✓	✓	36A
SB-17	4-5	I	1520			I	1520	S	1	✓	✓	37A
Precleaned Containers Relinquished by: (Signature)		Date / Time	Received by: (Signature)				Date / Time	Remarks and Observations				
Relinquished by: (Signature)		Date / Time	Received by: (Signature)				Date / Time					

Not a filter  
90% solids

**Matrix Types** S Soil SW Surface Water GW Ground Water SG Soil Gas



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MOBILE UNIT #  
**KB2**

CLIENT NAME		PROJECT NAME & ADDRESS						SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	PRESERVATION C Chilled H HCL O: Other (see Remarks)
<b>Hart &amp; Hickman</b>		<b>Scotts #2 Greenville, NC</b>									
SAMPLERS		CONTACT PERSON				BATCH # (Lab Use Only)		VOA	270 solid	2080913	
SAMPLE FIELD ID \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.				COMMENT / SAMPLE PRE FIX
TMW-8	8/9/13	1340			8/9/13	1525		GW	2	✓	23A, 23B
TMW-9		1350				1525		BW	2	✓	24A 24B
TMW-10		1400				1525		BH	2	✓	25A 25B
TMW-11		1410				1525		BW	2	✓	26A 26B
IDW-1		-				1525		W	1	✓	27A
IDW-1 soil		1420				1525		S	1	✓	28A
Precleaned Containers Relinquished by: (Signature)		Date / Time	Received by: (Signature)				Date / Time	Remarks and Observations			
Relinquished by: (Signature)		Date / Time	Received by: (Signature)				Date / Time				

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

**Analytical Data Tables**  
**for**  
**North Carolina Dry-Cleaning Solvent Cleanup Act Program**

<b>Facility Name:</b>	Scott's Cleaners
	1699 Farmville Blvd, Greenville, Pitt County
<b>DSCA ID No.:</b>	74-0011
<b>Submittal Date:</b>	November 5, 2013
<b>Prepared By:</b>	Hart & Hickman, PC
	2923 S. Tryon Street, Suite 100, Charlotte, NC 28203

**DSCA ID No.: 74-0011**

<b>Table/ Att. No.</b>	<b>Description</b>	<b>Check box if included</b>
<b>Tables</b>		
Table 1	Site Chronology	<input checked="" type="checkbox"/>
Table 2	Analytical Data for Soil	<input checked="" type="checkbox"/>
Table 3	Analytical Data for Sub-slab Gas	<input type="checkbox"/>
Table 4	Analytical Data for Soil Gas	<input type="checkbox"/>
Table 5	Analytical Data for Indoor and Outdoor Air	<input type="checkbox"/>
Table 6	Monitoring Well Construction Data	<input type="checkbox"/>
Table 7	Groundwater Elevation Data	<input checked="" type="checkbox"/>
Table 8	Analytical Data for Groundwater	<input checked="" type="checkbox"/>
Table 9	Analytical Data for Surface Water	<input type="checkbox"/>
Table 10	Water Well(s) Survey Data	<input type="checkbox"/>
Table 11	Analytical Data for Water Supply Well(s)	<input type="checkbox"/>
Table 12	Analytical Data for Natural Attenuation Parameters	<input type="checkbox"/>
<b>Attachments</b>		
Att. 1	Site map showing location(s) of soil boring(s).	<input type="checkbox"/>
Att. 2	Soil contaminant concentration maps showing the concentration at each sampling point.	<input type="checkbox"/>
Att. 3	Soil isoconcentration maps.	<input type="checkbox"/>
Att. 4	Site map showing location(s) of monitoring well(s).	<input type="checkbox"/>
Att. 5	Well completion diagrams and records of construction submitted to state.	<input type="checkbox"/>
Att. 6	Groundwater gradient map for each sampling event.	<input type="checkbox"/>
Att. 7	PCE concentration map showing the concentration at each sampling point and isoconcentration map. However, if there are significant plumes for other dry-cleaning contaminants, contaminant concentration maps for each chemical of concern should be included.	<input type="checkbox"/>
Att. 8	Groundwater concentration trend plots.	<input type="checkbox"/>
Att. 9	Map showing location(s) of surface water sample(s) (if applicable).	<input type="checkbox"/>
Att. 10	Surface water concentration map showing the concentration at each sampling point (if applicable).	<input type="checkbox"/>
Att. 11	USGS Quad map with plotted water well location(s) within the 1,500 foot and 0.5 mile radii of the site (if applicable).	<input type="checkbox"/>
Att. 12	Site map showing location(s) of monitoring well(s) for natural attenuation paramete	<input type="checkbox"/>
Att. 13	Site map showing location(s) of indoor air, outdoor air, or soil gas samples.	<input type="checkbox"/>
Att. 14	Air and soil gas concentration map showing the concentration at each sampling point.	<input type="checkbox"/>
Att. 15	Signed laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation (only if not previously submitted).	<input type="checkbox"/>
Att. 16		<input type="checkbox"/>
Att. 17		<input type="checkbox"/>
Att. 18		<input type="checkbox"/>
Att. 19		<input type="checkbox"/>
Att. 20		<input type="checkbox"/>
Att. 21		<input type="checkbox"/>

**Note:**

1. All maps must include a bar scale, north arrow, site name, DSCA ID No., and date.

**Table 1: Site Chronology****ADT 1****DSCA ID No.: 74-0011****Chronology of Events**

Date	Instructions: Brief description of all significant events that have occurred since a problem was suspected at the facility. Commence with the first date a problem was suspected and continue through the most recent activity described in the current report.
1986-1995	Scott's Cleaners conducted dry-cleaning operations at the site. In 1995, dry-cleaning operations were relocated to another facility. Scott's Cleaners operated a drop-off/pick-up store and laundromat in the space that was formerly occupied by the dry-cleaning operations until early 2013. The former dry-cleaning facility is currently vacant.
August 2012	PCE impacts were discovered at the Scott's Cleaners site during a Primary Site Assessment conducted by Terracon Consultants, Inc. for the NCDOT as part of a road-widening project.
May 23, 2013	The site is certified into the DSCA Program.
August 2013	Hart & Hickman, PC (H&H) conducted prioritization assessment activities at the Scott's Cleaners site. The assessment activities included the installation and sampling of 14 soil borings (SB-1 through SB-3 and SB-7 through SB-17) and 11 temporary monitoring wells (TMW-1 through TMW-11). H&H personnel also surveyed top of casing elevations in select temporary monitoring wells to obtain groundwater flow direction. On November 5, 2013, H&H submitted a Prioritization Assessment Report to the DSCA Program documenting the assessment activities and results.

**Table 2: Analytical Data for Soil**

**DSCA ID No.: 74-0011**

Sample ID	Depth [feet bgs]	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)							
			[mg/kg]																	
S-1	0-2.5	08/29/12	ND	0.0318 J	ND	ND	ND	<b>1.42</b>	<0.00556	ND	0.0393 J	ND	ND							
S-2	0-2.5	08/29/12	ND	<0.000494	ND	ND	ND	<0.000607	0.000946J	ND	<0.000681	ND	ND							
S-3	0-2.5	08/29/12	ND	<0.000468	ND	ND	ND	<0.000575	0.00106J	ND	<0.000640	ND	ND							
S-4	0-2.5	08/29/12	ND	<0.000465	ND	ND	ND	<0.000571	<0.000523	ND	<0.000682	ND	ND							
S-5	0-2.5	08/29/12	ND	<0.000495	ND	ND	ND	<0.000608	<0.000557	ND	<0.000622	ND	ND							
S-6	0-2.5	08/29/12	ND	<0.000452	ND	ND	ND	<0.000555	<0.000508	ND	<0.000452	ND	ND							
SB-1	2-3	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.033							
	3-4	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.033							
SB-2	2-3	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.034							
	3-4	08/06/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.036							
SB-3	2-3	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.033							
	4-5	08/06/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.036							
SB-7	0-1	08/06/13	<0.011	<0.011	<0.011	NA	NA	<b>0.20</b>	<0.011	<0.011	<0.011	<0.011	<0.033							
	4-5	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.034							
SB-8	2-3	08/06/13	<0.011	0.010J	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.033							
	4-5	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.034							
SB-9	0-1	08/06/13	<0.011	0.034	<0.011	NA	NA	0.013	<0.011	<0.011	<0.011	<0.011	<0.034							
	4-5	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.034							
SB-10	1-2	08/06/13	<0.011	<0.011	<0.011	NA	NA	0.017	<0.011	<0.011	<0.011	<0.011	<0.033							
	4-5	08/06/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.036							
SB-11	1-2	08/06/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.036							
SB-12	1-2	08/06/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.035							
	4-5	08/06/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.035							
SB-13	1-2	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.034							
	4-5	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.034							
SB-14	1-2	08/06/13	<0.012	<0.012	<0.012	NA	NA	0.008J	<0.012	<0.012	<0.012	<0.012	<0.035							
	4-5	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.034							

**Table 2: Analytical Data for Soil**

**DSCA ID No.: 74-0011**

Sample ID	Depth [feet bgs]	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)								
			[mg/kg]																		
SB-15	1-2	08/06/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.034								
	4-5	08/06/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.036								
SB-16	1-2	08/06/13	<0.011	<0.011	<0.011	NA	NA	<b>0.006J</b>	<0.011	<0.011	<0.011	<0.011	<0.033								
	4-5	08/06/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.036								
SB-17	1-2	08/07/13	<0.011	<0.011	<0.011	NA	NA	<b>0.007J</b>	<0.011	<0.011	<0.011	<0.011	<0.034								
	4-5	08/06/13	<0.012	<0.012	<0.012	NA	NA	<b>0.002J</b>	<0.012	<0.012	<0.012	<0.012	<0.036								
DSCA Tier 1 RBSL			0.034	1.1	51	--	--	0.023	29	1.5	0.067	0.00079	36								

Notes:  
 1. NA denotes Not Analyzed; ND denotes not detected (laboratory reporting limit not available).  
 2. J flag denotes estimated concentration between the laboratory reporting limit and method detection limit.  
 3. **Bold** concentrations exceed the DSCA Tier 1 Risk Based Screening Level (RBSL).  
 4. S-1 through S-6 were collected by Terracon on behalf of NCDOT (Preliminary Site Assessment, February 2013). MEK, acetone, carbon disulfide, and several SVOC compounds were detected in some of these samples at low concentrations.

**Table 7: Groundwater Elevation Data****ADT 7****DSCA ID No.: 74-0011**

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	TOC Elevation [feet]	Depth to Water [feet bgs]	Groundwater Elevation [feet]	Depth to NAPL [feet bgs]	NAPL Thickness [feet]	Corrected* Groundwater Elevation [feet]
TMW-1	08/05/13	100.00	4.87	95.13			
TMW-2	08/05/13	100.42	6.01	94.41			
TMW-3	08/05/13	100.23	6.80	93.43			
TMW-4	08/05/13	100.08	8.14	91.94			
TMW-5	08/05/13	99.81	8.12	91.69			
TMW-6	08/05/13	99.92	7.85	92.07			

Note: TOC elevations surveyed by H&H personnel on 8/5/13. Elevations are relative to arbitrary benchmark at TMW-1 TOC equal to 100 feet.



**Table 8: Analytical Data for Groundwater**

**ADT 8**

**DSCA ID No.: 74-0011**

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)								
		[mg/L]																		
TMW-1	08/07/13	<0.0010	<0.0010	<0.0010	NA	NA	<0.00070	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030								
TMW-2	08/07/13	<0.0010	<0.0010	<0.0010	NA	NA	<b>0.0004J</b>	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030								
TMW-3	08/07/13	<0.0010	<b>0.0009J</b>	<0.0010	NA	NA	<b>0.0348</b>	<0.0010	<0.0010	<b>0.0007J</b>	<0.0010	<0.0030								
TMW-4	08/07/13	<0.0010	<b>0.0004J</b>	<0.0010	NA	NA	<b>0.0192</b>	<0.0010	<0.0010	<b>0.0004J</b>	<0.0010	<0.0030								
TMW-5	08/07/13	<0.0010	<0.0010	<0.0010	NA	NA	<0.00070	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030								
TMW-6	08/07/13	<0.0010	<0.0010	<0.0010	NA	NA	<b>0.0005J</b>	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030								
TMW-7	08/07/13	<0.0010	<0.0010	<0.0010	NA	NA	<b>0.0010</b>	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030								
TMW-8	08/09/13	<0.0010	<0.0010	<0.0010	NA	NA	<b>0.0065</b>	<0.0010	<0.0010	<0.0010	<0.0010	<b>0.0009J</b>								
TMW-9	08/09/13	<0.0050	<b>0.055</b>	<0.0050	NA	NA	<b>0.22</b>	<0.0050	<0.0050	<b>0.022</b>	<0.0050	<0.015								
TMW-10	08/09/13	<0.0010	<0.0010	<b>0.0021</b>	NA	NA	<b>0.0006J</b>	<b>0.0029</b>	<0.0010	<0.0010	<0.0010	<b>0.0193</b>								
TMW-11	08/09/13	<0.0010	<0.0010	<0.0010	NA	NA	<0.00070	<b>0.0004J</b>	<0.0010	<0.0010	<0.0010	<b>0.0002J</b>								
DSCA Tier 1 RBSL		0.001	0.07	0.003	--	--	0.0007	0.6	0.076	0.001	0.00003	0.094								

Notes:  
 1. NA denotes Not Analyzed.  
 2. **Bold** concentration exceeds the DSCA Tier 1 Risk Based Screening Levels (RBSLs) (or NC 2L Standard, if not established).