Prioritization Assessment Report
Scott's Cleaners

DSCA ID: 74-0010
111 W. 10th Street
Greenville, Pitt County

North Carolina Dry-Cleaning Solvent Cleanup Act Program

H&H Job No. DS0-82A
October 29, 2013

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

#C-1269 Engineering
#245 Geology

2923 South Tryon Street, Suite 100
Charlotte, NC 28203
704.586.0007 main

3334 Hillsborough Street
Raleigh, NC 27607
919.847.4241 main

www.harthickman.com

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

Via E- Mail

October 29, 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 # 74-0010
H&H Job No. DS0-82A

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 111 W. 10th Street in Greenville, Pitt County, North Carolina.

As part of the prioritization assessment activities, H&H installed and sampled nineteen soil borings (SB-1 through SB-19) and seventeen temporary monitoring wells (TMW-1 through TMW-17). 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 primarily to the north/northeast. Additional assessment activities are needed to further delineate the extent of impacts.

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 Zawtocki, PE
Principal Engineer

Attachment

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

Facility Name:	Scott's Cleaners
	111 W. 10th Street, Greenville, Pitt County
DSCA ID No.:	74-0010
Submittal Date:	October 29, 2013
Prepared By:	Hart & Hickman, PC
	2923 South Tryon Street, Suite 100, Charlotte, North Carolina 28203

Table of Contents		AR TOC
DSCA ID No.: 74-0010		
Form/Att. No.	**Description**	**Check box if included**
	Assessment Report Forms (Page 1 of 2)	
Form 1	Facility Information	☑
Form 2	Site History	☑
Form 3	Land Use and Receptor Survey	☑
Form 4	Groundwater Use, Surface Water Use, and Ecological Survey	☑
Form 5	Site Stratigraphy and Hydrogeology	☑
Form 6	Non-Aqueous Phase Liquid (NAPL) Information	☑
	Assessment Report Attachments	
Att. 1	Site location map.	☑
Att. 2	Historical aerial photograph.	☐
Att. 3	Historical maps and fire insurance records.	☑
Att. 4	Facility as-building drawings.	☐
Att. 5	Facility layout diagram indicating the following (if applicable): (i) Service doors, (ii) current and historic location of drycleaning equipment, (iii) solvent/waste storage areas (including ASTs and USTs), (iv) distillation unit, (v) location of septic tank/drainfield or sanitary sewer lateral line, (vi) floor drains, (vii) storm sewer, (viii) expansion joints and cracks in floor, (ix) location of utilities, and (x) location of dumpsters.	☐
Att. 6	Utility records, including videos of sewer lines and pressure testing.	☐
Att. 7	Scaled vicinity map illustrating surrounding land use within 500 foot and 0.5 mile radii of the site.	☑
Att. 8	USGS Quad map with plotted water well location(s) within the 1,500 foot and 0.5 mile radii of the site.	☑
Att. 9	Area geologic map/relevant cross-sections.	☑
Att. 10	Soil boring logs which must include the following: (i) OVA or other field screening readings, (ii) depth of samples collect, (iii) odor, (iv) staining, (v) blow counts (if applicable), (vi) interval recovery, (vii) structures and/or bedding, (viii) moisture content, and (ix) borehole disposition (abandonment or conversion to monitor well).	☑
Att. 11	Site map showing location(s) of soil sample(s).	☐
Att. 12	Soil contaminant concentration maps showing the concentration at each sampling point.	☐
Att. 13	Soil isoconcentration maps.	☑
Att. 14	Site map showing location(s) of monitoring well(s).	☑
Att. 15	Well completion diagrams and records of construction submitted to state.	☐
Att. 16	Groundwater gradient map.	☑
Att. 17	Groundwater contaminant concentration maps showing the concentration at each sampling point and isoconcentration maps.	☑
Att. 18	Map showing location(s) of surface water sample(s) (if applicable).	☐
Att. 19	Surface water concentration map showing the concentration at each sampling point (if applicable).	☐

Table of Contents	AR TOC

DSCA ID No.: 74-0010

Form/Att. No.	Description	Check box if included
Assessment Report Attachments continued (Page 2 of 2)		
Att. 20	Map showing location(s) of water supply well(s) (if applicable).	☐
Att. 21	Laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation.	☑
Att. 22		☐
Att. 23		☐
Att. 24		☐
Att. 25		☐

Note:

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

Facility Information **AR Form 1**

DSCA ID No.: 74-0010

☐	Currently operating facility since	
☑	Previously operating facility since	mid-1900s
☐	Temporarily out of service from	to
☑	Permanently out of service since	10/01/04

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):	111 W. 10th Street 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 buisness and the name of the dry-cleaning buisness (if applicable).

Scott's Cleaners - mid-1900s

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 the mid-1900s to 2004. Tetrachloroethene (PCE) was utilized in dry-cleaning operations during that time period. Hydrocarbon (petroleum-based solvent) was utilized in dry-cleaning operations in early operations at the site. The current Scott's Cleaners is a drop-off location only.

Report Prepared By

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

NORTH CAROLINA PROFESSIONAL SEAL 027221 ENGINEER CHRISTIE E. ZAWTOCKI

Christie Zawtocki 10/29/13

Contractor — Date: October 29, 2013

Christie Zawtocki — Printed Name

Hart & Hickman, PC — Company Name

Site History **AR Form 2**

DSCA ID No.: 74-0010

Number of dry-cleaning machines used at current or former facility: **2**

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

Transfer machines were believed to be used at the site during early operations in the mid-1900s. More recent operations at the site utilized dry-to-dry machines.

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

Perchloroethene (PCE) has always been used at the site. Hydrocarbon solvent was used in early operations at the site.

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 *Primary Site Assessment* conducted by Catlin for NCDOT in July 2012, there is a probable UST located on the property that is most likely from the former gas station.

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

Historical separator water disposal methods 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.

Site History **AR Form 2**

DSCA ID No.: 74-0010

Ground Surface Conditions

- [x] Unpaved
- [x] Paved % area paved: 15

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
[x] Sanitary sewer	Unknown	Unknown	Unknown	Unknown	Yes
[ ] Septic drainfields					
[ ] Covered storm sewer					
[ ] Open ditch					
[x] Water line	Unknown	Unknown	Unknown	Unknown	Yes
[x] Gas line	Unknown	Unknown	Unknown	Unknown	Yes
[x] Electric line	Unknown	Unknown	Unknown	Unknown	Yes
[x] Telephone line	Unknown	Unknown	Unknown	Unknown	Yes
[ ] Other					

Release Characterization

Date the release was discovered: July 2012

Date the release was reported: November 30, 2012

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. Petroleum-based solvents identified in soil and groundwater are likely from a former gas station that previously operated at the site.

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
- [x] Environmental assessment
- [ ] Other (specify)
- [ ] Known spill incident
- [ ] Citizen complaint
- [ ] Assessment on adjacent property
- [ ] Unknown

Site History **AR Form 2**

DSCA ID No.: 74-0010

Source(s) of Release

- ☐ Spills/Overfills
- ☐ Piping
- ☐ Other (specify)
- ☐ Tanks
- ☑ Unknown

Chemicals of Concern

- ☐ 1,1,1-Trichloroethane
- ☐ 1,1,2,2-Tetrachloroethane
- ☐ 1,1,2-Trichloroethanae
- ☐ 1,1-Dichloroethane
- ☐ 1,1-Dichloroethylene
- ☐ 1,2-Dichloroethane (EDC)
- ☑ Benzene
- ☐ Benzo(a)pyrene
- ☐ Carbon tetrachloride
- ☐ Chloroform
- ☑ Others
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
- ☑ cis-1,2-Dichloroethylene
- ☑ Ethylbenzene
- ☐ Methyl tert-butyl ether (MTBE)
- ☐ Naphthalene
- ☑ Tetrachloroethylene
- ☑ Toluene
- ☑ trans-1,2-Dichloroethylene
- ☑ Trichloroethylene
- ☐ Vinyl chloride
- ☑ Xylenes (total)

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-DCE (dichloroethene) 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. With the exception of benzene, ethylbenzene, and xylenes these constituents have been detected in groundwater at concentrations below DSCA Tier 1 RBSLs. According to historic Sanborn maps, a gas-station operated on the property in the early to mid-1900s.

Land Use and Receptor Survey **AR Form 3**

DSCA ID No.: 74-0010

Land Use

On-site Land Use	Current	Future
Residential	○	○
Commercial/Industrial	◉	◉
Other	○	○

Justify the choice for future land use:

The subject site has historically been utilized as a commercial property since the early 20th century. The site is surrounded on all sides by commercial properties with a few residential properties beyond. Visual observations of the surrounding properties provide no indiciation of a future land use change.

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

Receptor Survey

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

	Distance [feet]	Direction
Nearest residential site:	185	Upgradient
Nearest commercial/industrial site:	90	Downgradient
If site is vacant, nearest inhabited building:	N/A	N/A
Nearest ecologically sensitive area (agricultural areas, parks/recreational areas, widlife sanctuaries, wetlands):	1,800	Downgradient
Nearest school, hospital, day care, nursing home etc.:	900	Downgradient
Nearest public supply well:	1,000	Upgradient
Nearest private supply well:	N/A	N/A
Nearest point of exposure (current or potential) for groundwater ingestion:	1,000	Upgradient
Nearest surface water body:	1,800	Downgradient

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 northeast. An unnamed tributary to the Tar River is located approximately 1,800 ft to the northeast and downgradient of the site. The East Carolina University campus is located approximately 900 ft northeast of the site. The nearest potential point of exposure for groundwater ingestion is a public supply well located approximately 1,000 ft southwest and upgradient of the site.

Groundwater Use, Surface Water Use, and Ecological Survey **AR Form 4**

DSCA ID No.: 74-0010

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)

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)

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 1,000 feet southwest and upgradient of the site. No private water supply wells are located within 1,500 feet of the site.

Site Stratigraphy and Hydrogeology **AR Form 5**

DSCA ID No.: 74-0010

Stratigraphy of Site

Depth [feet]	Description of Soil
0-3	Brown, silty SAND
3-8	Tan and orange, clayey SAND

Predominent 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? ○ Confined ◉ Unconfined ○ Perched

Underlying predominent 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:	9.45
Flow direction:	Northeast
Hydraulic gradient (i) [--]:	0.013
Hydraulic conductivity (K) [cm/year]:	3,156
Darcy velocity (K x i) [cm/year-calculated]:	41.03
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, TMW-2, TMW-6, TMW-7, TMW-8, and TMW-10.

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

Groundwater at the site predominately flows to the northeast.

The hydraulic gradient was calculated from August 2013 groundwater elevation data for TMW-8 and TMW-1.

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				
	Values/Range			Method
Dry bulk density [g/cm^3]	NA	☐ Estimated	☐ Measured	NA
Total porosity [cm^3/cm^3]:	NA	☐ Estimated	☐ Measured	NA
Effective porosity [cm^3/cm^3]:	NA	☐ Estimated	☐ Measured	NA
Water content [cm^3/cm^3]:	NA	☐ Estimated	☐ Measured	NA
Fractional organic carbon content [g-C/g-soil]:	NA	☐ Estimated	☐ Measured	NA

Saturated Zone Characteristics				
	Values/Range			Method
Dry bulk density [g/cm^3]	NA	☐ Estimated	☐ Measured	NA
Total porosity [cm^3/cm^3]:	NA	☐ Estimated	☐ Measured	NA
Effective porosity [cm^3/cm^3]	NA	☐ Estimated	☐ Measured	NA
Water content [cm^3/cm^3]:	NA	☐ Estimated	☐ Measured	NA
Fractional organic carbon content [g-C/g-soil]:	NA	☐ Estimated	☐ Measured	NA

Additional Notes

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

Non-Aqueous Phase Liquid (NAPL) Information **AR Form 6**

DSCA ID No.: 74-0010

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

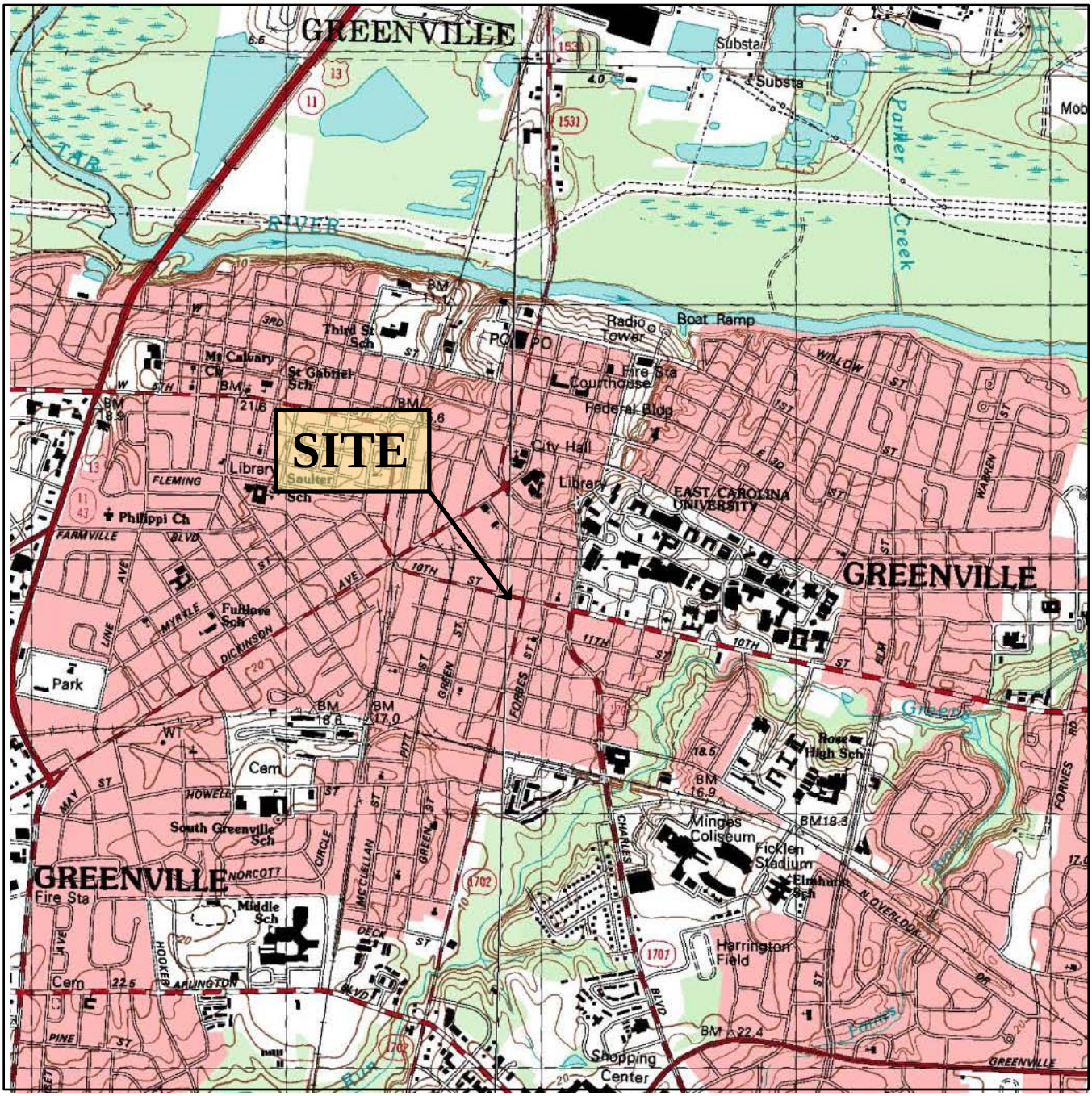
Date DNAPL was discovered?	
Type of DNAPL discovered (if known):	
Number of monitoring wells/points currently at site:	
Number of monitoring wells/points containing DNAPL (Note if any, list the monitoring wells/points	
Has DNAPL removal started?	
If No, cite reason:	
If Yes, specify method of removal (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:	

Additonal Notes

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

ATTACHMENT 1

SITE LOCATION MAP



N

APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

GREENVILLE SE, NORTH CAROLINA 1998

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

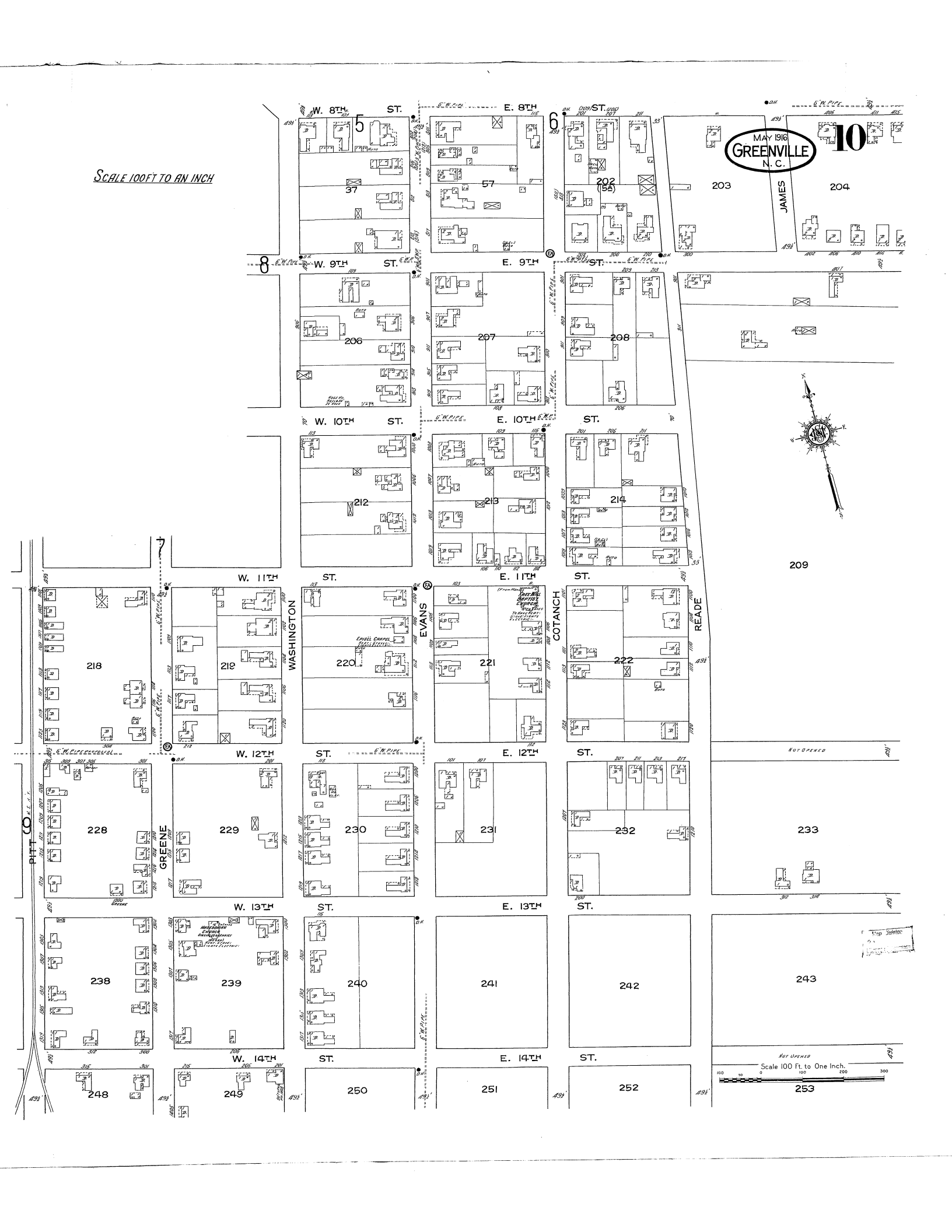
TITLE	**SITE LOCATION MAP**
PROJECT	**SCOTT'S CLEANERS** DSCA ID: 74-0010 111 WEST TENTH STREET GREENVILLE, PITT COUNTY

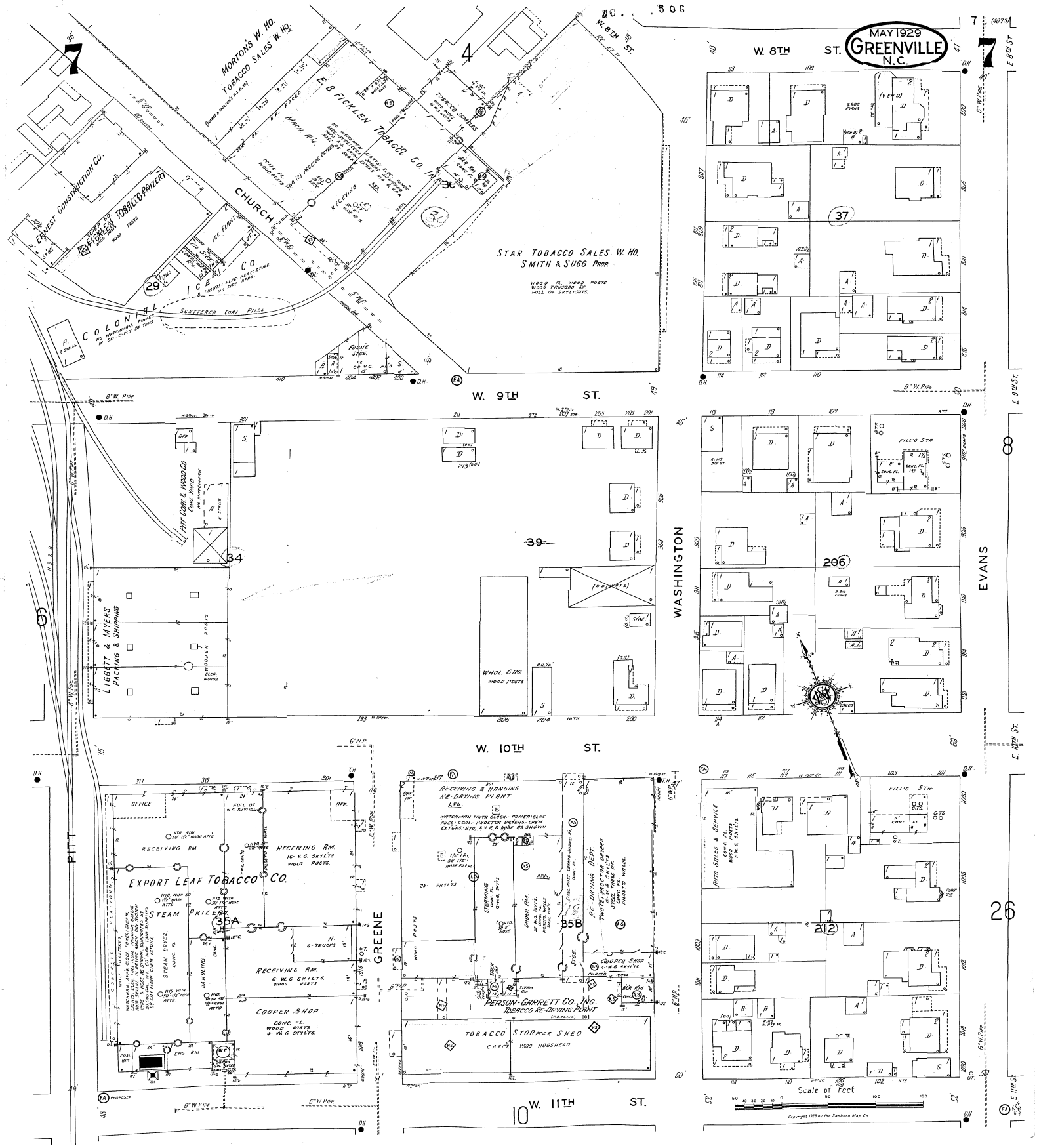
hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	9-27-13	REVISION NO:	0
JOB NO:	DS0-82	ATTACHMENT NO.	1

ATTACHMENT 3

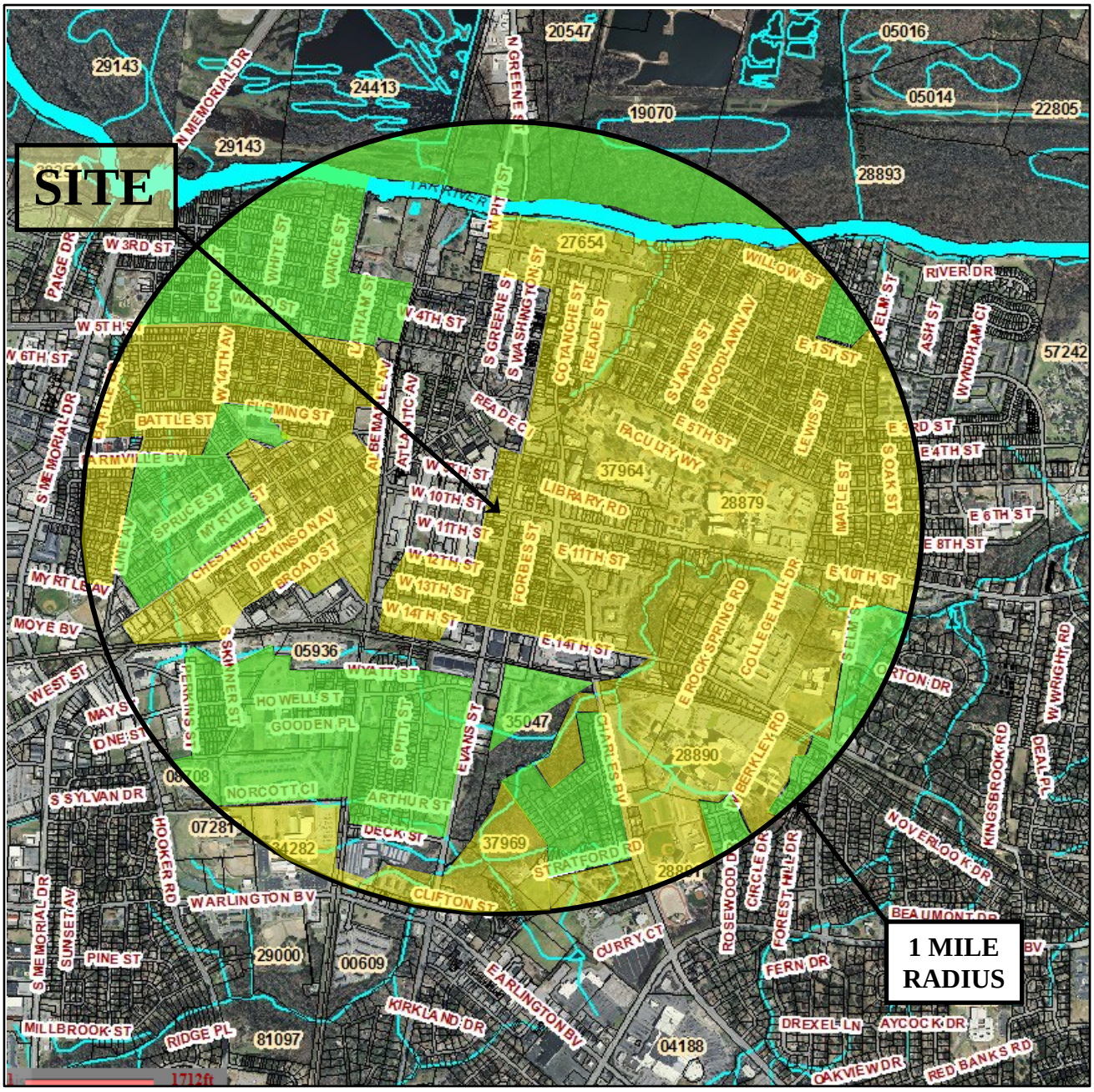
HISTORICAL SANBORN MAPS


SCALE 100FT TO AN INCH
MAY 1916
GREENVILLE
N. C.
10
W. 8TH ST.
E. 8TH ST.
W. 9TH ST.
E. 9TH ST.
W. 10TH ST.
E. 10TH ST.
W. 11TH ST.
E. 11TH ST.
W. 12TH ST.
E. 12TH ST.
W. 13TH ST.
E. 13TH ST.
W. 14TH ST.
E. 14TH ST.
JAMES
WASHINGTON
EVANS
COTANCH
READE
GREENE
PITT
37
57
202
(5A)
203
204
206
207
208
209
212
213
214
218
219
220
221
222
228
229
230
231
232
233
238
239
240
241
242
243
248
249
250
251
252
253
NOT OPENED
Scale 100 Ft. to One Inch.


MAY 1929
GREENVILLE
N.C.
W. 8TH ST.
W. 9TH ST.
W. 10TH ST.
W. 11TH ST.
E. 9TH ST.
E. 10TH ST.
E. 11TH ST.
CHURCH
WASHINGTON
EVANS
PITT
GREENE
MORTON'S W. HO.
TOBACCO SALES W. HO.
E. B. FICKLEN TOBACCO CO. INC.
STAR TOBACCO SALES W. HO.
SMITH & SUGG PROP.
ERNEST CONSTRUCTION CO.
FICKLEN TOBACCO PRIZER
ICE & COAL CO.
COLONIAL
SCATTERED COAL PILES
ATT COAL & WOOD CO.
LIGGETT & MYERS PACKING & SHIPPING
WHOL. GRO.
(PRIVATE)
EXPORT LEAF TOBACCO CO.
PRIZERY
RECEIVING RM.
STEAM DRYER
COOPER SHOP
RECEIVING & HANDING RE-DRYING PLANT
RE-DRYING DEPT.
PERSON-GARRETT CO., INC.
TOBACCO RE-DRYING PLANT
TOBACCO STORAGE SHED
CAPY. 2500 HOGSHEAD
AUTO SALES & SERVICE
FILL'G STA.
Scale of Feet
Copyright 1929 by the Sanborn Map Co.

ATTACHMENT 7

SCALED VICINITY MAP



APPROXIMATE

0 2000 4000

SCALE IN FEET

N

LEGEND

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

TITLE

VICINITY MAP

PROJECT

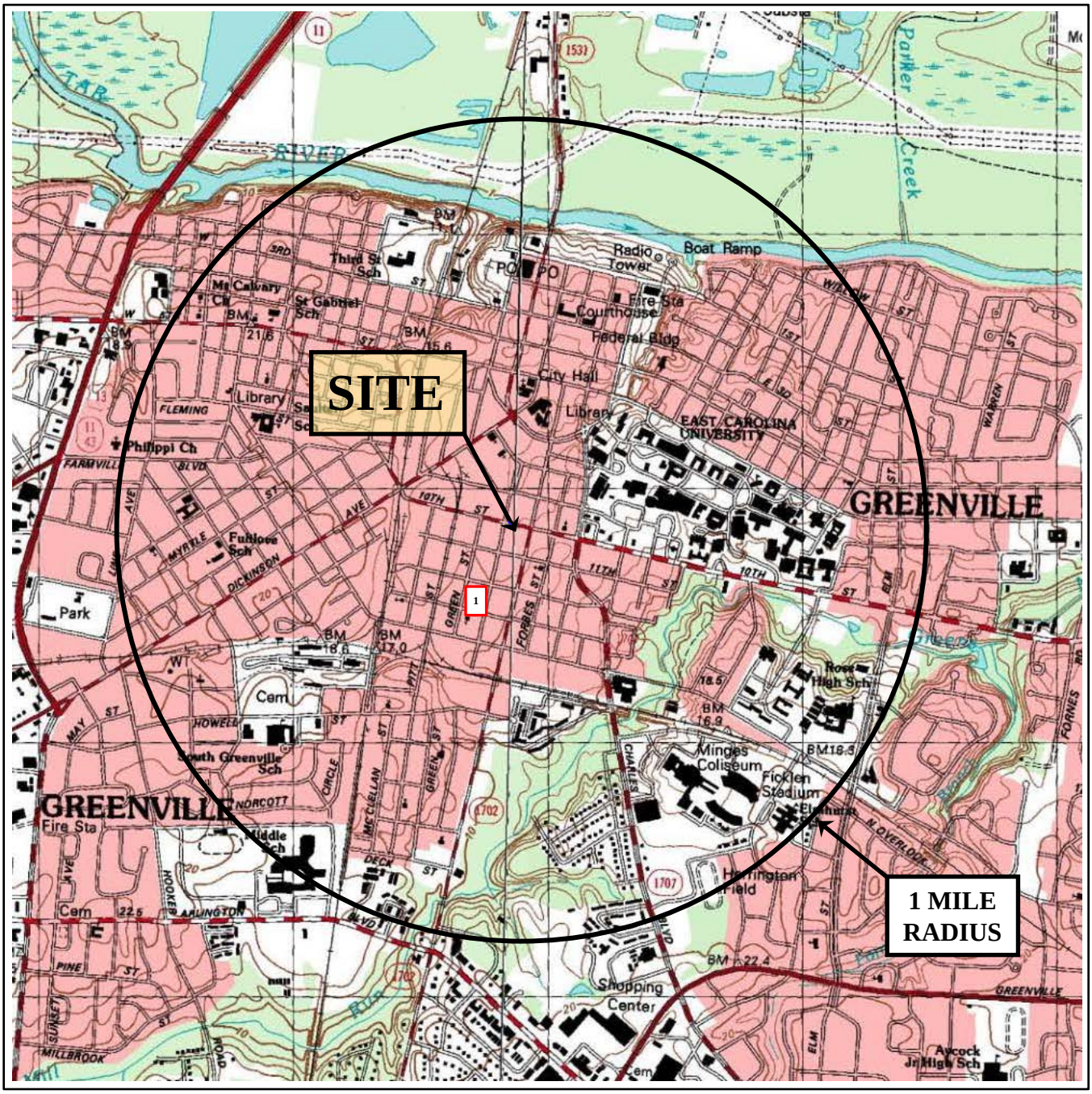
SCOTTS CLEANERS
DSCA ID: 74-0010
111 WEST TENTH STREET
GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE: 10-11-13	REVISION NO: 0
JOB NO: DS0-82	ATTACHMENT NO. 7

ATTACHMENT 8

WATER SUPPLY WELL LOCATION MAP



APPROXIMATE

0 2000 4000

SCALE IN FEET

N

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

U.S.G.S. QUADRANGLE MAP

GREENVILLE SE, NORTH CAROLINA 1998

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE

WATER WELL LOCATION MAP

PROJECT

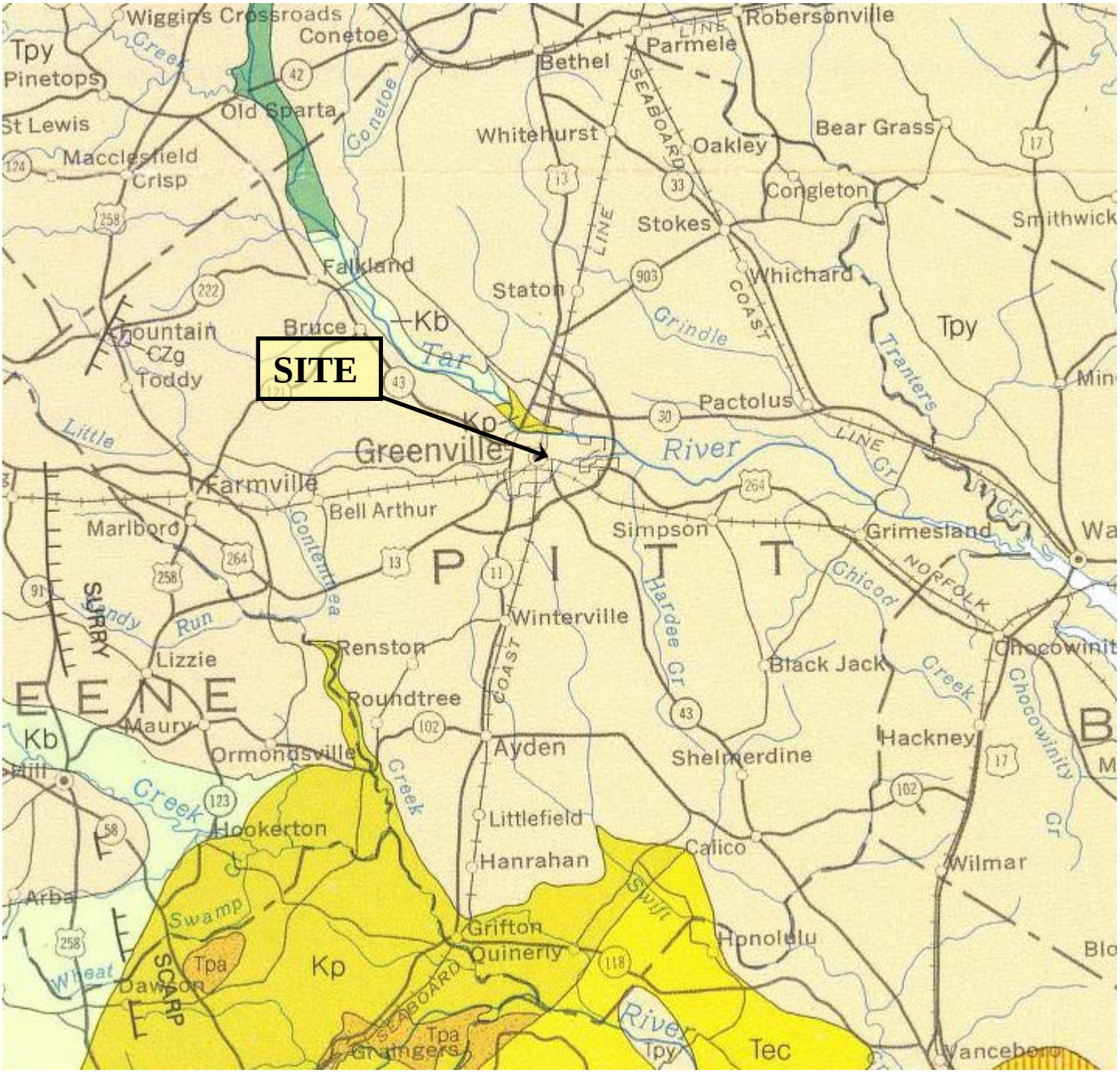
SCOTT'S CLEANERS
DSCA ID: 74-0010
111 WEST TENTH STREET
GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	9-27-13	REVISION NO:	0
JOB NO:	DS0-82	ATTACHMENT NO.	8

ATTACHMENT 9

AREA GEOLOGIC MAP



N

APPROXIMATE

0 5.5 11

SCALE IN MILES

Tpy

COASTAL PLAIN

YORKTOWN FORMATION AND DUPLIN FORMATION, UNDIVIDED

SOURCE: GEOLOGIC MAP OF NORTH CAROLINA 1985

TITLE

AREA GEOLOGIC MAP

PROJECT

SCOTT'S CLEANERS
DSCA ID: 74-0010
111 WEST TENTH STREET
GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE: 9-27-13	REVISION NO: 0
JOB NO: DS0-82	ATTACHMENT NO. 9

ATTACHMENT 10

BORING LOGS

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0.0			0	0		(SC-SM) Tan to orange, clayey SAND	
		GB	0	0			
2.5			0	0			
			0	0			
		GB	0	0			
5.0			0	0			
			0	0			
			0	0			
7.5			0	0		(CL-ML) Tan to orange, silty CLAY, groundwater at 8 ft bgs	
10.0							
12.5						Bottom of borehole at 12.0 feet.	
15.0							

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-2/TMW-2

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0			0	0		(SC-SM) Tan to orange, clayey SAND		0.0
		GB	0	0				
2.5			0	0				2.5
			0	0				
		GB	0	0				
5.0			0	0				5.0
			0	0				
7.5			0	0				7.5
						Bottom of borehole at 9.0 feet.		
10.0								10.0

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 9 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0.0						Concrete	
			0	0		(SM) Brown, silty SAND	
		GB	0	3.2			
2.5			0	1.4			
			0	0.7			
						(SC) Tan, clayey SAND, moist at 4 ft, wet at 5 ft	
			0	1.4			
5.0			0	4.4			
			0	3.1			
						(CL) Tan, CLAY	
7.5			0	0			
						Bottom of borehole at 8.0 feet.	
10.0							

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-4/TMW-4

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0			3.2	0		Concrete
						(SM) Brown, silty SAND
		GB	0	9.4		
						(SM) Tan, silty SAND
2.5			0	4.8		
			0	1.8		(CL) Tan to orange, CLAY
		GB	0	0		
5.0			0	0		
			0	0		
			0	0		(SP) Moist to wet, tan to orange, SAND
7.5						
10.0						
12.5						Bottom of borehole at 12.0 feet.
15.0						

BORING DIAGRAM

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

BORING NUMBER SB-5

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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)

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0.0						Concrete	
			0	3.4		(ML) Brown, SILT	
		GB	7.2	0			
2.5			4.6	0		(SC-SM) Tan, clayey SAND	
			1.8	0			
		GB	0.8	0		(CL) Tan to orange, CLAY	
5.0			0	0			
			0	0			
						(CL) Moist to wet, tan, CLAY	
7.5			0	0			
						Bottom of borehole at 8.0 feet.	
10.0							

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-6/TMW-5

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0.0			0	0		(SM) Brown, silty SAND	
		GB	0	0			
2.5			0	0			
		GB	0	0		(SC-SM) Moist, tan, clayey SAND	
			0	0			
5.0			0	0			
			0	0		(SM) Wet, tan, silty SAND	
7.5			0	0			
10.0							
						Bottom of borehole at 12.0 feet.	
12.5							
15.0							

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

BORING NUMBER SB-7

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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)

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0.0						(SM) Brown, silty SAND
		GB	0	0		
2.5			0	0		
						(SM) Tan, silty SAND
			0	0		
		GB	0	0		
5.0			0	0		
						(SC-SM) Moist, tan to orange, clayey SAND
			0	0		
						(SM) Wet, tan, silty SAND
7.5			0	0		
						Bottom of borehole at 8.0 feet.
10.0						

BORING DIAGRAM

DEPTH (ft): 0.0, 2.5, 5.0, 7.5, 10.0

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-8

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
			0	0		(SM) Brown, silty SAND		
		GB	0	0				
						(SM) Tan, silty SAND		
2.5			0	0				2.5
			0	0				
		GB	0	0				
5.0								5.0
			0	0				
			0	0				
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-9

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Asphalt		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				
5.0								5.0
			0	0				
						(SM) Tan to orange, silty SAND		
			0	0				
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-10

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Asphalt		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				
5.0								5.0
			0	0				
						(SM) Tan to orange, silty SAND		
			0	0				
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

BORING STARTED: 8/7/13
BORING COMPLETED: 8/7/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

BORING NUMBER SB-11/TMW-17

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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)

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0			0	7.2		Concrete (SM) Tan, silty SAND
		GB	0	22.2		
			0	14.1		
			0	7.8		(SC-SM) Tan to orange, clayey SAND
		GB	0	4.2		
5			0	1.2		
			0	0		(SC-SM) Gray to orange, clayey SAND, wet at 8 ft
			0	0		
10						
15						Bottom of borehole at 15.0 feet.

BORING DIAGRAM

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

BORING STARTED: 8/9/13
BORING COMPLETED: 8/9/13
TOTAL DEPTH: 15 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-12

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						(SM) Brown, silty SAND		0.0
			0	0				
		GB	0	0				
2.5			0	0				2.5
						(SC-SM) Tan to orange, clayey SAND		
			0	0				
		GB	0	0				
5.0			0	0				5.0
			0	0				
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

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

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-13

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						(SM) Brown, silty SAND		0.0
			0	0				
		GB	0	0				
2.5			0	0				2.5
						(SC-SM) Tan to orange, clayey SAND		
			0	0				
		GB	0	0				
5.0			0	0				5.0
			0	0				
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

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

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-14

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Asphalt		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				
5.0								5.0
			0	0				
						(SM) Tan to orange, silty SAND		
			0	0				
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

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

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-15

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Asphalt		0.0
			0	0		(SM) Brown, silty SAND		
		GB						
2.5			0	0		(SC-SM) Tan to orange, clayey SAND		2.5
		GB						
5.0			0	0		(SM) Tan to orange, silty SAND		5.0
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

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

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-16

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0.0						Asphalt	
			0	0		(SM) Brown, silty SAND	
		GB	0	0			
2.5			0	0			
						(SC-SM) Tan to orange, clayey SAND	
			0	0			
		GB	0	0			
5.0			0	0			
						(SC-SM) Gray to orange, clayey SAND	
			0	0			
7.5			0	0			
						Bottom of borehole at 8.0 feet.	
10.0							

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

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

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-17

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
						(SM) Brown, silty SAND		
		GB	0	0				
						(SM) Tan, silty SAND		
2.5			0	0				2.5
		GB						
5.0			0	0				5.0
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

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

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-18

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
						(SM) Brown, silty SAND		
		GB	0	0				
						(SM) Tan to gray, silty SAND		
2.5			0	0				2.5
						(SC-SM) Tan to orange, clayey SAND		
		GB						
5.0			0	0				5.0
7.5			0	0				7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

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

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
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-19

PROJECT: Scott's Cleaners
JOB NUMBER: DSCA ID# 074-0010
LOCATION: 111 West 10th Street, Greenville, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						Concrete		0.0
						(SM) Brown, silty SAND		
		GB	0	86.1				
						(SM) Tan to orange, silty SAND		
2.5			0	250				2.5
		GB				(SC-SM) Tan to orange, clayey SAND		
5.0			0	416				5.0
			0	312				
7.5								7.5
						Bottom of borehole at 8.0 feet.		
10.0								10.0

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

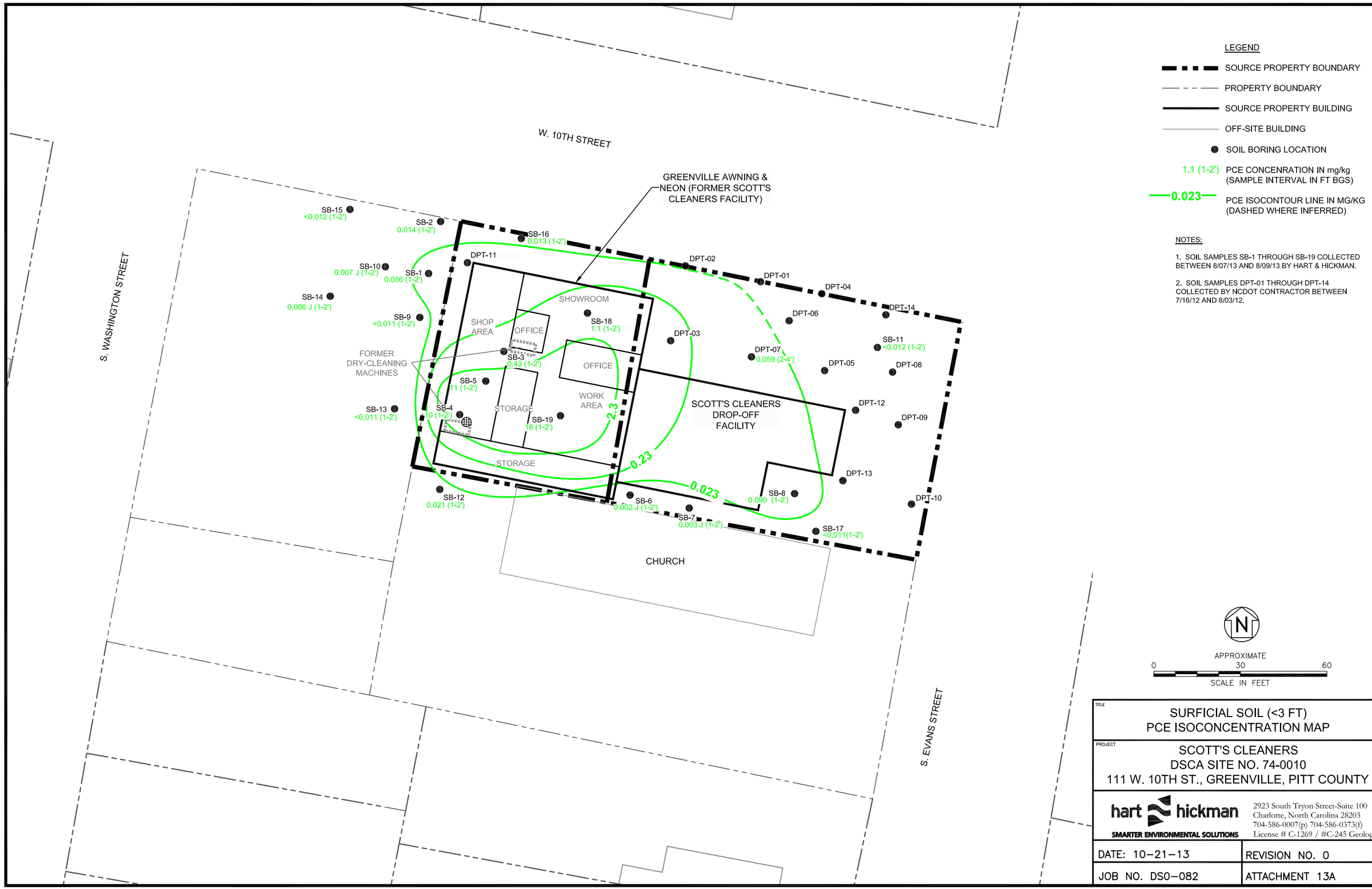
BORING STARTED: 8/9/13
BORING COMPLETED: 8/9/13
TOTAL DEPTH: 8 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:

BORING LOG - HART HICKMAN.GDT - 10/23/13 13:14 - S:\AAA-MASTER GINT PROJECTS\DSO-82.GPJ

ATTACHMENTS 13A-B

SOIL PCE ISOCONCENTRATION MAPS



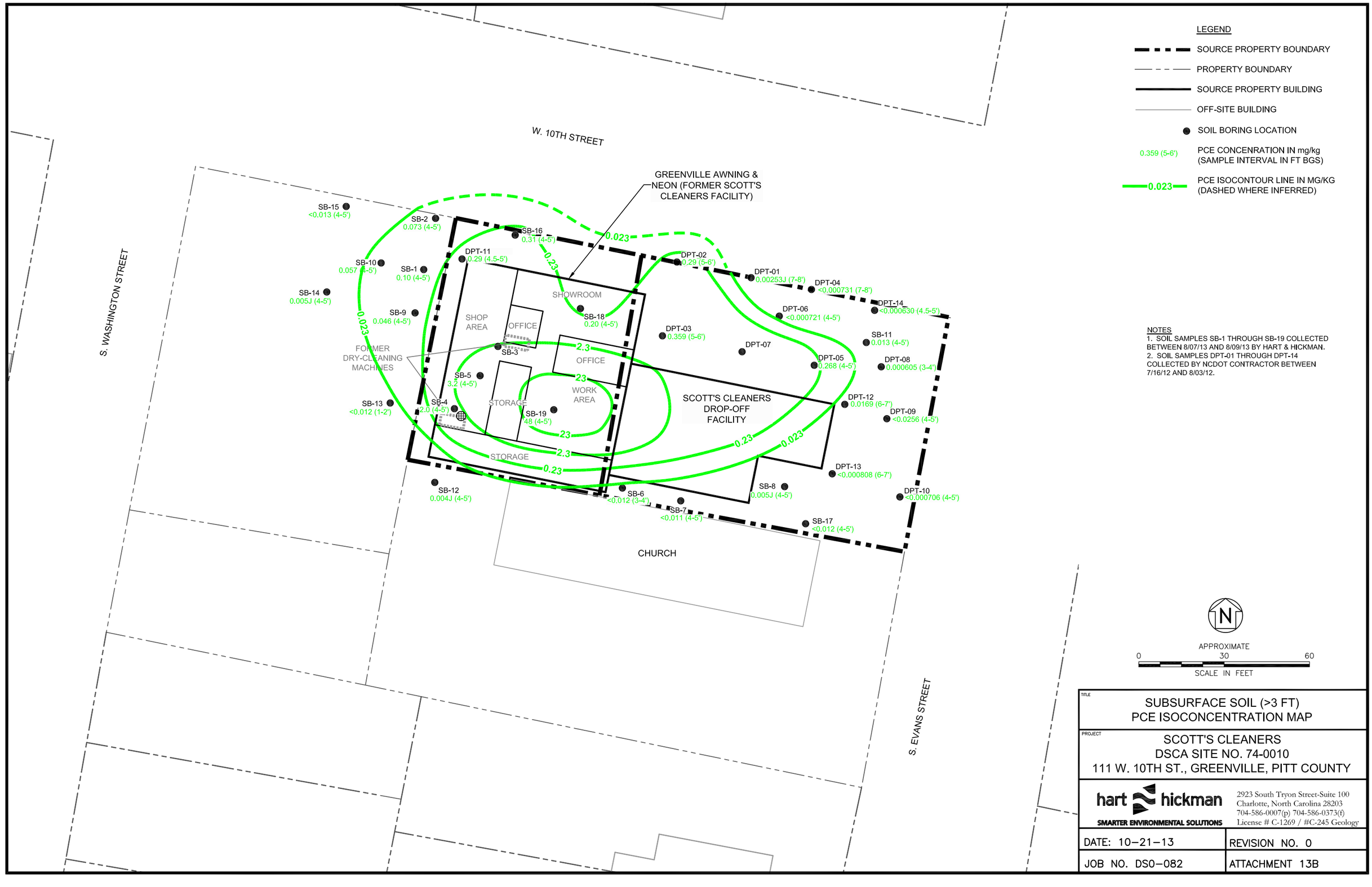
TITLE
SURFICIAL SOIL (<3 FT)
PCE ISOCONCENTRATION MAP

PROJECT
SCOTT'S CLEANERS
DSCA SITE NO. 74-0010
111 W. 10TH ST., GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
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: 10–21–13	REVISION NO. 0
JOB NO. DS0–082	ATTACHMENT 13A

S:\AAA-Master Projects\DSCA - DS0\DS0-82 Scotts 74-0010\Figures\DC740010_20130807_Figures.dwg, Surficial Soil Att 13A, 10/29/2013 10:53:55 AM,



TITLE
SUBSURFACE SOIL (>3 FT)
PCE ISOCONCENTRATION MAP

PROJECT
SCOTT'S CLEANERS
DSCA SITE NO. 74-0010
111 W. 10TH ST., GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
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: 10–21–13 | REVISION NO. 0

JOB NO. DS0–082 | ATTACHMENT 13B

S:\AAA-Master Projects\DSCA - DS0\DS0-82 Scotts 74-0010\Figures\DC740010_20130807_Figures.dwg, Surficial Soil Att 13B, 10/29/2013 10:54:33 AM,

ATTACHMENT 14

SITE MAP

THE TIRE STORE

A&B AUTO SERVICE

EVAN'S SEAFOOD MARKET

TMW-15

TMW-14

CHIROPRACTOR OFFICE

TMW-9

DANDY CARS

TMW-10

TMW-13

TMW-12

MUTLI-UNIT OFFICE

TMW-11

DPT-01

DPT-02

W. 10TH STREET

S. WASHINGTON STREET

GREENVILLE AWNING & NEON (FORMER SCOTT'S CLEANERS FACILITY)

TMW-2

TMW-1

SHOWROOM

SHOP AREA

OFFICE

TMW-16

TMW-17

FORMER DRY-CLEANING MACHINES

TMW-3

OFFICE

TMW-4

STORAGE

WORK AREA

SCOTT'S CLEANERS DROP-OFF FACILITY

STORAGE

TMW-5

DPT-10

TMW-8

CHURCH

TMW-7

TMW-6

S. EVANS STREET

LEGEND

SOURCE PROPERTY BOUNDARY

PROPERTY BOUNDARY

SOURCE PROPERTY BUILDING

OFF-SITE BUILDING

TEMPORARY MONITORING WELL

N

APPROXIMATE

0 40 80

SCALE IN FEET

TITLE

SITE MAP

PROJECT

SCOTT'S CLEANERS
DSCA SITE NO. 74-0010
111 W. 10TH STREET
GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
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: 10/21/13 | REVISION NO. 0

JOB NO. DS0-82 | ATTACHMENT 14

ATTACHMENT 16

GROUNDWATER GRADIENT MAP

THE TIRE STORE

A&B AUTO SERVICE

EVAN'S SEAFOOD MARKET

TMW-15

TMW-14

CHIROPRACTOR OFFICE

TMW-9

DANDY CARS

TMW-10 (89.33)

TMW-13

TMW-12

MUTLI-UNIT OFFICE

TMW-11

90

W. 10TH STREET

GREENVILLE AWNING & NEON (FORMER SCOTT'S CLEANERS FACILITY)

S. WASHINGTON STREET

TMW-2 (90.21)

TMW-1 (90.11)

SHOWROOM

SHOP AREA

OFFICE

TMW-16

TMW-17

FORMER DRY-CLEANING MACHINES

TMW-3

OFFICE

WORK AREA

TMW-4

STORAGE

SCOTT'S CLEANERS DROP-OFF FACILITY

STORAGE

TMW-5

DPT-10

91

TMW-8 (91.49)

CHURCH

TMW-7 (90.56)

TMW-6 (90.72)

S. EVANS STREET

LEGEND

- SOURCE PROPERTY BOUNDARY
- PROPERTY BOUNDARY
- SOURCE PROPERTY BUILDING
- OFF-SITE BUILDING
- TEMPORARY MONITORING WELL
- (91.49) GROUNDWATER ELEVATION (FT) RELATIVE TO ARBITRARY BENCHMARK
- 91 GROUNDWATER ELEVATION (FT)
- INFERRED GROUNDWATER FLOW DIRECTION

NOTE
1. SELECT TEMPORARY WELLS WERE GAUGED AND SURVEYED BY HART & HICKMAN ON 8/08/13.

N

APPROXIMATE
0 40 80
SCALE IN FEET

TITLE: GROUNDWATER GRADIENT MAP

PROJECT:
SCOTT'S CLEANERS
DSCA SITE NO. 74-0010
111 W. 10TH STREET
GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
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: 10/21/13 | REVISION NO. 0

JOB NO. DS0-82 | ATTACHMENT 16

ATTACHMENTS 17A-B

GROUNDWATER ISOCONCENTRATION MAPS

THE TIRE STORE

A&B AUTO SERVICE

EVAN'S SEAFOOD MARKET

0.0007

0.007

TMW-15
0.0005 J

TMW-14
0.0512

CHIROPRACTOR OFFICE

TMW-9
0.0009J

DANDY CARS

TMW-10
0.0388

TMW-13
0.0611

TMW-12
0.034

0.07

MUTLI-UNIT OFFICE

TMW-11
0.23

DPT-01
0.303

0.7

DPT-02
0.879

W. 10TH STREET

S. WASHINGTON STREET

GREENVILLE AWNING & NEON (FORMER SCOTT'S CLEANERS FACILITY)

TMW-2
0.0006J

TMW-1
0.0714

SHOWROOM

SHOP AREA

OFFICE

TMW-16
2.4

FORMER DRY CLEANING MACHINES

TMW-3
0.14

OFFICE

TMW-17
0.0014

TMW-4
1.7

STORAGE

WORK AREA

SCOTT'S CLEANERS DROP-OFF FACILITY

0.7

0.07

0.007

0.0007

STORAGE

TMW-5
0.28

DPT-10
BDL

TMW-8
<0.00070

CHURCH

TMW-7
<0.00070

TMW-6
<0.00070

S. EVANS STREET

LEGEND

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

BDL = BELOW DETECTION LIMIT

0.0014 PCE CONCENTRATION (mg/L)

—0.0007— PCE ISOCONTOUR LINE IN mg/L (DASHED WHERE INFERRED)

N

APPROXIMATE
0 40 80
SCALE IN FEET

NOTES
1. TEMPORARY MONITORING WELLS TMW-1 THROUGH TMW-17 COLLECTED ON 8/08/13 AND 8/09/13 BY HART & HICKMAN.
2. TEMPORARY MONITORING WELLS DPT-01, DPT-02, AND DPT-10 COLLECTED BY NCDOT CONTRACTOR ON 8/01/12, 8/02/12, AND 7/26/12 RESPECTIVELY.

TITLE
PCE ISOCONCENTRATION MAP

PROJECT
SCOTT'S CLEANERS
DSCA SITE NO. 74-0010
111 W. 10TH STREET
GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
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: 10/21/13 | REVISION NO. 0

JOB NO. DS0-82 | ATTACHMENT 17A

THE TIRE STORE

A&B AUTO SERVICE

EVAN'S SEAFOOD MARKET

TMW-15 <0.0010

TMW-14 0.0003 J

CHIROPRACTOR OFFICE

TMW-9 <0.0010

DANDY CARS

TMW-10 0.0006 J

TMW-13 0.0008 J

TMW-12 0.0029

MUTLI-UNIT OFFICE

TMW-11 0.012

DPT-01 0.00122

DPT-02 0.067

0.01

0.001

W. 10TH STREET

S. WASHINGTON STREET

GREENVILLE AWNING & NEON (FORMER SCOTT'S CLEANERS FACILITY)

TMW-2 <0.0010

TMW-1 0.001 J

SHOWROOM

SHOP AREA

OFFICE

TMW-16 0.070

TMW-17 <0.0010

FORMER DRY-CLEANING MACHINES

TMW-3 0.067

OFFICE

WORK AREA

TMW-4 0.055

STORAGE

SCOTT'S CLEANERS DROP-OFF FACILITY

STORAGE

0.01

TMW-5 0.0063 J

DPT-10 BDL

0.001

TMW-8 <0.0010

CHURCH

TMW-7 <0.0010

TMW-6 <0.0010

S. EVANS STREET

LEGEND

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

BDL — BELOW DETECTION LIMIT

0.067 — TCE CONCENTRATION (mg/L)

—0.01— TCE ISOCONTOUR LINE IN mg/L (DASHED WHERE INFERRED)

N

APPROXIMATE

0 40 80

SCALE IN FEET

NOTES

1. TEMPORARY MONITORING WELLS TMW-1 THROUGH TMW-17 COLLECTED ON 8/08/13 AND 8/09/13 BY HART & HICKMAN.
2. TEMPORARY MONITORING WELLS DPT-01, DPT-02, AND DPT-10 COLLECTED BY NCDOT CONTRACTOR ON 8/01/12, 8/02/12, AND 7/26/12 RESPECTIVELY.

TITLE

TCE ISOCONCENTRATION MAP

PROJECT

SCOTT'S CLEANERS
DSCA SITE NO. 74-0010
111 W. 10TH STREET
GREENVILLE, PITT COUNTY

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
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: 10/21/13	REVISION NO. 0
JOB NO. DS0-82	ATTACHMENT 17B

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

August 15, 2013

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

RE: Scott's Cleaners #1 111 W. 10th Street, Greenville, NC - Final Data Report
KB Labs Project # 13-117

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 7 to 10, 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

PROJECT NARRATIVE

Project Scope

From August 7to 10, 2013, a total of 56 samples (38 soils and 18 water) were analyzed for Hart & Hickman at Scott's Cleaners #1 111 W. 10th Street, 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

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

uncertainty of each measurement using a statistical evaluation of the standard deviation 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 ± 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. Sample ID TMW-17 reported m,p-Xylene 140 changed to 160 ug/L.

3. 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.

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

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: #1 111 W. 10th Street	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-117
On-site Dates: 8/7/13-8/10/13	**Client Project Manager**: Tim Klotz	**Matrix:** Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 50	08/07/13	95	92	104	100	Pass	Pass	Pass	Pass
LCS 20	08/07/13	98	92	105	100	Pass	Pass	Pass	Pass
SOIL BLANK	08/07/13	105	99	104	102	Pass	Pass	Pass	Pass
2080713-01A(SB-1 1-2')	08/07/13	94	90	104	103	Pass	Pass	Pass	Pass
2080713-02A(SB-1 4-5')	08/07/13	95	87	103	104	Pass	Pass	Pass	Pass
2080713-03A(SB-2 1-2')	08/07/13	103	97	104	105	Pass	Pass	Pass	Pass
2080713-05A(SB-3 1-2')	08/07/13	87	94	107	111	Pass	Pass	Pass	Pass
2080713-06A(SB-4 1-2')	08/07/13	110	106	113	122	Pass	Pass	Pass	Pass
2080713-07A(SB-4 4-5')	08/07/13	97	92	100	104	Pass	Pass	Pass	Pass
2080713-08A(SB-5 1-2')	08/07/13	100	96	111	126	Pass	Pass	Pass	Pass
2080713-09A(SB-5 4-5')	08/07/13	104	98	106	105	Pass	Pass	Pass	Pass
BLANK	08/07/13	97	93	102	100	Pass	Pass	Pass	Pass
BLANK	08/07/13	104	99	104	102	Pass	Pass	Pass	Pass
2080713-10A(SB-6 1-2')	08/07/13	101	96	110	129	Pass	Pass	Pass	Pass
2080713-11A(SB-6 3-4')	08/07/13	107	100	105	101	Pass	Pass	Pass	Pass
2080713-12A(SB-7 1-2')	08/07/13	100	94	106	113	Pass	Pass	Pass	Pass
2080713-13A(SB-7 4-5')	08/07/13	106	98	106	101	Pass	Pass	Pass	Pass
2080713-14A(SB-8 1-2')	08/07/13	96	95	109	111	Pass	Pass	Pass	Pass
2080713-15A(SB-8 4-5')	08/07/13	93	96	106	104	Pass	Pass	Pass	Pass
2080713-04A(SB-2 4-5')	08/07/13	97	91	102	104	Pass	Pass	Pass	Pass
2080713-16A(SB-9 1-2')	08/07/13	106	101	103	102	Pass	Pass	Pass	Pass
2080713-17A(SB-9 4-5')	08/07/13	102	97	105	105	Pass	Pass	Pass	Pass
2080713-18A(SB-10 1-2')	08/07/13	96	94	101	107	Pass	Pass	Pass	Pass
2080713-19A(SB-10 4-5')	08/07/13	96	91	103	104	Pass	Pass	Pass	Pass
2080713-06A(SB-4 1-2')	08/07/13	105	103	95	103	Pass	Pass	Pass	Pass
2080713-07A(SB-4 4-5')	08/07/13	103	98	95	100	Pass	Pass	Pass	Pass
2080713-08A(SB-5 1-2')	08/07/13	100	94	96	101	Pass	Pass	Pass	Pass
2080713-09A(SB-5 4-5')	08/07/13	103	96	99	103	Pass	Pass	Pass	Pass
2080713-16A(SB-9 1-2') MS	08/07/13	98	97	101	96	Pass	Pass	Pass	Pass
2080713-16A(SB-9 1-2') MSD	08/07/13	101	99	102	100	Pass	Pass	Pass	Pass
CCS 50	08/07/13	95	89	102	100	Pass	Pass	Pass	Pass
TUNE 50	08/08/13	105	96	106	102	Pass	Pass	Pass	Pass
CCS 50	08/08/13	99	93	103	101	Pass	Pass	Pass	Pass
LCS 20	08/08/13	100	95	102	99	Pass	Pass	Pass	Pass
BLANK	08/08/13	101	90	104	102	Pass	Pass	Pass	Pass
SOIL LCS 20	08/08/13	100	95	101	97	Pass	Pass	Pass	Pass
SOIL BLANK	08/08/13	101	90	105	105	Pass	Pass	Pass	Pass
2080813-01A (TMW-7)	08/08/13	107	93	102	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

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: #1 111 W. 10th Street	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-117
On-site Dates: 8/7/13-8/10/13	**Client Project Manager**: Tim Klotz	**Matrix:** Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
2080813-02A (TMW-6)	08/08/13	104	95	105	104	Pass	Pass	Pass	Pass
2080813-03A (TMW-8)	08/08/13	102	94	101	101	Pass	Pass	Pass	Pass
2080813-04A (TMW-1)	08/08/13	102	93	100	100	Pass	Pass	Pass	Pass
2080813-05A (TMW-2)	08/08/13	103	95	104	103	Pass	Pass	Pass	Pass
2080813-06A (TMW-4) 1:50	08/08/13	98	89	100	103	Pass	Pass	Pass	Pass
2080813-07A (TMW-3) 1:10	08/08/13	101	95	99	98	Pass	Pass	Pass	Pass
2080813-05B(TMW-2) MS	08/08/13	94	90	101	96	Pass	Pass	Pass	Pass
2080813-05B(TMW-2) MSD	08/08/13	98	92	105	98	Pass	Pass	Pass	Pass
2080813-08A (TMW-9)	08/08/13	103	96	105	106	Pass	Pass	Pass	Pass
2080813-09A (TMW-10)	08/08/13	94	88	101	99	Pass	Pass	Pass	Pass
2080813-10A (TMW-5) 1:10	08/08/13	97	91	100	101	Pass	Pass	Pass	Pass
2080813-11A (TMW-16) 1:50	08/08/13	98	91	100	101	Pass	Pass	Pass	Pass
2080813-12A (TMW-11) 1:10	08/08/13	106	100	102	103	Pass	Pass	Pass	Pass
2080813-13A (TMW-12) 1:2	08/08/13	104	97	103	103	Pass	Pass	Pass	Pass
2080813-14A(TMW-14)	08/08/13	98	94	100	103	Pass	Pass	Pass	Pass
2080813-15A(TMW-13)	08/08/13	99	94	99	100	Pass	Pass	Pass	Pass
CCS 50	08/08/13	92	88	102	99	Pass	Pass	Pass	Pass
TUNE 50	08/09/13	123	119	92	98	Pass	Pass	Pass	Pass
CCS 50	08/09/13	101	94	101	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
2080913-01A (IDW-1)	08/09/13	108	93	96	99	Pass	Pass	Pass	Pass
2080913-01A (IDW-1) 1:5	08/09/13	104	93	99	101	Pass	Pass	Pass	Pass
2080913-02A(TMW-15)	08/09/13	98	93	99	101	Pass	Pass	Pass	Pass
2080913-03A(TMW-17)	08/09/13	91	87	97	106	Pass	Pass	Pass	Pass
2080913-03A(TMW-17) 1:10	08/09/13	92	82	97	102	Pass	Pass	Pass	Pass
2080913-04A(SB-11 1-2)	08/09/13	95	87	99	98	Pass	Pass	Pass	Pass
2080913-05A(SB-11 4-5)	08/09/13	94	85	101	101	Pass	Pass	Pass	Pass
2080913-06A(SB-12 1-2)	08/09/13	102	92	98	107	Pass	Pass	Pass	Pass
2080913-07A(SB-12 4-5)	08/09/13	100	88	98	100	Pass	Pass	Pass	Pass
2080913-08A(SB-13 1-2)	08/09/13	100	92	98	106	Pass	Pass	Pass	Pass
2080913-09A(SB-13 4-5)	08/09/13	99	92	99	102	Pass	Pass	Pass	Pass
2080913-10A(SB-15 1-2)	08/09/13	98	89	99	103	Pass	Pass	Pass	Pass
2080913-11A(SB-15 4-5)	08/09/13	100	94	99	100	Pass	Pass	Pass	Pass
2080913-12A(SB-14 1-2)	08/09/13	100	92	99	102	Pass	Pass	Pass	Pass
2080913-13A(SB-14 4-5)	08/09/13	101	94	98	101	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

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: #1 111 W. 10th Street	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-117
On-site Dates: 8/7/13-8/10/13	**Client Project Manager**: Tim Klotz	**Matrix:** Water/Soil

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
2080913-14A(SB-16 1-2)	08/09/13	101	92	98	102	Pass	Pass	Pass	Pass
2080913-15A(SB-16 4-5)	08/09/13	100	93	98	100	Pass	Pass	Pass	Pass
2080913-16A(SB-17 1-2)	08/09/13	85	94	98	100	Pass	Pass	Pass	Pass
2080913-17A(SB-17 4-5)	08/09/13	100	93	100	105	Pass	Pass	Pass	Pass
2080913-18A(SB-18 1-2)	08/09/13	97	92	107	116	Pass	Pass	Pass	Pass
2080913-19A(SB-18 4-5)	08/09/13	99	93	99	105	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
SOIL BLANK	08/09/13	96	89	97	102	Pass	Pass	Pass	Pass
2080913-22A(IDW-1 SOIL)	08/09/13	100	90	101	104	Pass	Pass	Pass	Pass
2080913-20A(SB-19 1-2)	08/09/13	106	93	95	100	Pass	Pass	Pass	Pass
2080913-21A(SB-19 4-5)	08/09/13	108	94	95	99	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
2080913-17A(SB-17 4-5')MS	08/10/13	105	97	94	95	Pass	Pass	Pass	Pass
2080913-17A(SB-17 4-5'')MSD	08/10/13	100	96	95	96	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

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: #1 111 W. 10th Street	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-118
Onsite Dates: 8/7/13-8/10/13	**Client Project Manager:** Tim Klotz	**Matrix**: Water/Soil

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

Samples: 2080713-16A(SB-9 1-2) **Date of Analysis:** 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	100	103	4	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	106	131	22	Pass	Pass	> RPDL
Trans-1,2-Dichloroethene	48	145	20	104	129	22	Pass	Pass	> RPDL
Cis-1,2-Dichloroethene	51	147	20	109	127	16	Pass	Pass	Pass
Benzene	71	123	20	123	129	5	> UCL	> UCL	Pass
Trichloroethene	64	134	20	116	121	4	Pass	Pass	Pass
Toluene	67	130	20	123	131	7	Pass	> UCL	Pass
Tetrachloroethene	54	140	20	125	134	7	Pass	Pass	Pass
Ethylbenzene	69	125	20	126	137	8	> UCL	> UCL	Pass
m,p-Xylene	63	144	20	131	140	6	Pass	Pass	Pass
o-Xylene	74	125	20	139	150	8	> UCL	> UCL	Pass
1,3,5-Trimethylbenzene	64	133	20	124	134	8	Pass	> UCL	Pass
1,2,4-Trimethylbenzene	64	134	20	128	135	6	Pass	> UCL	Pass

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

Samples: 2080813-05A(TMW-2) **Date of Analysis:** 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	81	76	6	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	85	97	13	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	81	93	14	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	89	96	8	Pass	Pass	Pass
Benzene	71	123	20	98	96	2	Pass	Pass	Pass
Trichloroethene	64	134	20	92	91	2	Pass	Pass	Pass
Toluene	67	130	20	100	101	1	Pass	Pass	Pass
Tetrachloroethene	54	140	20	100	100	0	Pass	Pass	Pass
Ethylbenzene	69	125	20	103	104	1	Pass	Pass	Pass
m,p-Xylene	63	144	20	107	106	1	Pass	Pass	Pass
o-Xylene	74	125	20	113	113	0	Pass	Pass	Pass
1,3,5-Trimethylbenzene	64	133	20	103	102	1	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	106	105	1	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

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: #1 111 W. 10th Street	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-118
Onsite Dates: 8/7/13-8/10/13	**Client Project Manager:** Tim Klotz	**Matrix**: Water/Soil

Samples: 2080913-17A(SB-17 4-5') **Date of Analysis:** 8/10/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	38	145	20	103	100	3	Pass	Pass	Pass
1,1-Dichloroethene	47	143	20	110	104	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	48	145	20	105	100	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	147	20	118	114	3	Pass	Pass	Pass
Benzene	71	123	20	129	126	2	> UCL	> UCL	Pass
Trichloroethene	64	134	20	123	118	4	Pass	Pass	Pass
Toluene	67	130	20	121	119	2	Pass	Pass	Pass
Tetrachloroethene	54	140	20	121	118	2	Pass	Pass	Pass
Ethylbenzene	69	125	20	119	116	3	Pass	Pass	Pass
m,p-Xylene	63	144	20	123	119	3	Pass	Pass	Pass
o-Xylene	74	125	20	132	130	2	> UCL	> UCL	Pass
1,3,5-Trimethylbenzene	64	133	20	120	117	3	Pass	Pass	Pass
1,2,4-Trimethylbenzene	64	134	20	123	122	2	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

Client: Hart & Hickman	**Driller/Sampler**: Hart & Hickman	**Analyst:** Bob George
Site: #1 111 W. 10th Street	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-118
Onsite Dates: 8/7/13-8/10/13	**Client Project Manager:** Tim Klotz	**Matrix**: Water/Soil

Laboratory Control Spikes (LCS):

Samples: LCS 1 SOIL — **Date of Analysis:** 8/7/2013
LCS 2 — 8/8/2013
LCS 3 SOIL — 8/8/2013

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	81	94	90	Pass	Pass	Pass
1,1-Dichloroethene	52	to	147	99	116	109	Pass	Pass	Pass
Trans-1,2-Dichloroethene	51	to	148	99	111	105	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	to	142	100	106	103	Pass	Pass	Pass
Benzene	71	to	130	102	110	107	Pass	Pass	Pass
Trichloroethene	69	to	132	95	105	102	Pass	Pass	Pass
Toluene	70	to	134	105	110	108	Pass	Pass	Pass
Tetrachloroethene	58	to	145	106	112	109	Pass	Pass	Pass
Ethylbenzene	74	to	134	110	117	111	Pass	Pass	Pass
m,p-Xylene	70	to	146	113	121	116	Pass	Pass	Pass
o-Xylene	71	to	139	121	128	122	Pass	Pass	Pass
1,3,5-Trimethylbenzene	75	to	133	108	115	113	Pass	Pass	Pass
1,2,4-Trimethylbenzene	70	to	139	110	118	115	Pass	Pass	Pass

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

Samples: LCS 4 — **Date of Analysis:** 8/9/2013
LCS 5 SOIL — 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.

KB Labs, Inc.
6821 SW Archer Rd
Gainesville, FL 32608
Phone: 352-367-0073

Final Data Report

Hart-Hickman
Scotts Cleaners 10th Street
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 1-2'	SB-1 4-5'	SB-2 1-2'	SB-2 4-5'	SB-3 1-2'	SB-4 1-2'	SB-4 4-5'	SB-5 1-2'	SB-5 4-5'
Analysis Date	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	1	1	1	1	1	1	1, 1m	1, 1m	1, 1m	1, 1m
% solids	NA	**81.5**	**78.5**	**86.4**	**76.6**	**93.9**	**90.6**	**80.0**	**90.4**	**75.8**
Units	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	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
1,1-Dichloroethene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
t-1,2-Dichloroethene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.005 J
c-1,2-Dichloroethene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	**0.006 J**	**0.011**	**0.016**	**0.075**	**0.38**
Benzene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
Trichloroethene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	**0.006 J**	**0.047**	**0.030**	**0.17**	**0.30**
Toluene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
Tetrachloroethene	0.010 U	**0.056**	**0.10**	**0.014**	**0.073**	**0.43**	**10**	**2.0**	**11**	**3.2**
Ethylbenzene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
m,p-Xylene	0.020 U	0.025 U	0.025 U	0.023 U	0.026 U	0.021 U	0.022 U	0.025 U	0.022 U	0.026 U
o-Xylene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
1,3,5-Trimethylbenzene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
1,2,4-Trimethylbenzene	0.010 U	0.012 U	0.013 U	0.012 U	0.013 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U

KB Labs, Inc.
6821 SW Archer Rd
Gainesville, FL 32608
Phone: 352-367-0073

Final Data Report
Hart-Hickman
Scotts Cleaners 10th Street
Greenville, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-6 1-2'	SB-6 3-4'	SB-7 1-2'	SB-7 4-5'	SB-8 1-2'	SB-8 4-5'	SB-9 1-2'	SB-9 4-5'	SB-10 1-2'	SB-10 4-5'
Analysis Date	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	1	1	1	1	1	1	1	1	1	1
% solids	**91.4**	**85.3**	**92.7**	**89.1**	**95.8**	**94.9**	**89.6**	**78.8**	**89.8**	**75.6**
Units	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	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
1,1-Dichloroethene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
t-1,2-Dichloroethene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
c-1,2-Dichloroethene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
Benzene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
Trichloroethene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
Toluene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
Tetrachloroethene	**0.002 J**	0.012 U	**0.003 J**	0.011 U	**0.090**	**0.005 J**	0.011 U	**0.046**	**0.007 J**	**0.057**
Ethylbenzene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
m,p-Xylene	0.022 U	0.023 U	0.022 U	0.022 U	0.021 U	0.021 U	0.022 U	0.025 U	0.022 U	0.026 U
o-Xylene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
1,3,5-Trimethylbenzene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U
1,2,4-Trimethylbenzene	0.011 U	0.012 U	0.011 U	0.011 U	0.010 U	0.011 U	0.011 U	0.013 U	0.011 U	0.013 U

KB Labs, Inc.
6821 SW Archer Rd
Gainesville, FL 32608
Phone: 352-367-0073

Final Data Report
Hart-Hickman
Scotts Cleaners 10th Street
Greenville, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-11 1-2	SB-11 4-5'	SB-12 1-2'	SB-12 4-5'	SB-13 1-2'	SB-13 4-5'	SB-15 1-2'	SB-15 4-5'	SB-14 1-2'	SB-14 4-5'
Analysis Date	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	1	1	1	1	1	1	1	1	1	1
% solids	**86.3**	**83.0**	**89.6**	**84.0**	**92.7**	**85.4**	**80.4**	**76.1**	**78.1**	**82.1**
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
1,1-Dichloroethene	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
t-1,2-Dichloroethene	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
c-1,2-Dichloroethene	0.012 U	0.012 U	**0.003 J**	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
Benzene	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
Trichloroethene	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
Toluene	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
Tetrachloroethene	0.012 U	**0.013**	**0.021**	**0.004 J**	0.011 U	0.012 U	0.012 U	0.013 U	**0.006 J**	**0.005 J**
Ethylbenzene	**0.007 J**	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
m,p-Xylene	**0.015 J**	0.024 U	0.022 U	0.024 U	0.022 U	0.023 U	0.025 U	0.026 U	0.026 U	0.024 U
o-Xylene	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
1,3,5-Trimethylbenzene	0.012 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U
1,2,4-Trimethylbenzene	**0.088**	**0.012**	**0.003 J**	0.012 U	0.011 U	0.012 U	0.012 U	0.013 U	0.013 U	0.012 U

KB Labs, Inc.
6821 SW Archer Rd
Gainesville, FL 32608
Phone: 352-367-0073

Final Data Report
Hart-Hickman
Scotts Cleaners 10th Street
Greenville, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB-16 1-2'	SB-16 4-5'	SB-17 1-2'	SB-17 4-5'	SB-18 1-2'	SB-18 4-5'	SB-19 1-2'	SB-19 4-5'	IDW-1 soil
Analysis Date	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Dilution	1	1	1	1	1	1	2m	4m	1
% solids	90.8	81.0	94.6	84.4	92.5	84.6	89.7	84.0	78.1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Chloride	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	0.95 U	0.013 U
1,1-Dichloroethene	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	0.95 U	0.013 U
t-1,2-Dichloroethene	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	0.95 U	0.013 U
c-1,2-Dichloroethene	0.011 U	**0.014**	0.011 U	0.012 U	**0.024**	0.012 U	**0.18 J**	0.95 U	0.013 U
Benzene	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	0.95 U	0.013 U
Trichloroethene	0.011 U	**0.012**	0.011 U	0.012 U	**0.051**	**0.004 J**	**0.16 J**	0.95 U	0.013 U
Toluene	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	0.95 U	0.013 U
Tetrachloroethene	**0.013**	**0.31**	0.011 U	0.012 U	**1.1**	**0.20**	**18**	**48**	**0.037**
Ethylbenzene	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	1.9 U	0.013 U
m,p-Xylene	0.022 U	0.025 U	0.021 U	0.024 U	0.022 U	0.024 U	0.89 U	0.95 U	0.026 U
o-Xylene	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	0.95 U	0.013 U
1,3,5-Trimethylbenzene	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	0.95 U	0.013 U
1,2,4-Trimethylbenzene	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U	0.012 U	0.45 U	0.95 U	0.013 U

KB Labs, Inc.
6821 SW Archer Rd
Gainesville, FL 32608
Phone: 352-367-0073

Final Data Report
Hart-Hickman
Scotts Cleaners 10th Street
Greenville, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	Method Blank	TMW-7	TMW-6	TMW-8	TMW-1	TMW-2	TMW-4	TMW-3	TMW-9
Analysis Date	08/08/13	08/08/13	08/08/13	08/08/13	08/08/13	08/08/13	08/08/13	08/08/13	08/08/13
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution	1	1	1	1	1	1	50	10	1
Units	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	50 U	10 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	50 U	10 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	50 U	10 U	1.0 U
c-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	**0.4 J**	1.0 U	**49 J**	**16**	1.0 U
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	10 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	**1.0 J**	1.0 U	**55**	**8.3 J**	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	10 U	1.0 U
Tetrachloroethene	0.7 U	0.7 U	0.7 U	0.7 U	**71.4**	**0.6 J**	**1700**	**140**	**0.9 J**
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	10 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	100 U	20 U	2.0 U
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	10 U	1.0 U
1,3,5-Trimethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	10 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	50 U	10 U	1.0 U

KB Labs, Inc.
6821 SW Archer Rd
Gainesville, FL 32608
Phone: 352-367-0073

Final Data Report
Hart-Hickman
Scotts Cleaners 10th Street
Greenville, NC

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	TMW-10	TMW-5	TMW-16	TMW-11	TMW-12	TMW-14	TMW-13	IDW-1	TMW-15
Analysis Date	08/08/13	08/08/13	08/08/13	08/08/13	08/08/13	08/08/13	08/08/13	08/09/13	08/09/13
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution	1	10	50	10	2	1	1	1, 5	1
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Vinyl Chloride	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
t-1,2-Dichloroethene	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
c-1,2-Dichloroethene	**2.5**	10 U	**24 J**	**7.8 J**	**24**	**0.6 J**	**0.5 J**	**6.1**	1.0 U
Benzene	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	**0.6 J**	**6.3 J**	**70**	**12**	**2.9**	**0.3 J**	**0.8 J**	**4.9**	1.0 U
Toluene	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	**38.8**	**280**	**2400**	**230**	**34**	**51.2**	**61.1**	**110**	**0.5 J**
Ethylbenzene	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylene	2.0 U	20 U	100 U	20 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	1.0 U	10 U	50 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U

KB Labs, Inc.
6821 SW Archer Rd
Gainesville, FL 32608
Phone: 352-367-0073

Final Data Report
Hart-Hickman
Scotts Cleaners 10th Street
Greenville, NC

	Sample ID
	TMW-17
Analysis Date	08/09/13
Matrix	Water
Dilution	1, 10
Units	ug/L
Vinyl Chloride	1.0 U
1,1-Dichloroethene	1.0 U
t-1,2-Dichloroethene	1.0 U
c-1,2-Dichloroethene	1.0 U
Benzene	**3.8**
Trichloroethene	1.0 U
Toluene	**4.2**
Tetrachloroethene	**1.4**
Ethylbenzene	**76.4**
m,p-Xylene	**160**
o-Xylene	**5.6**
1,3,5-Trimethylbenzene	**99.9**
1,2,4-Trimethylbenzene	**750**

CHAIN-OF-CUSTODY RECORD

1/2

Mobile Laboratory Services

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

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

MOBILE UNIT # FB2

CLIENT NAME: Hart & Huffman

PROJECT NAME & ADDRESS: Scott #1 Greenville, NC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER		DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: Volatiles	% solids	20807[illegible] COMMENT / SAMPLE PRE FIX
SB-1	1-2	8/7/13	1005			8/7/13	1021		S	1	✓	✓	01A
SB-1	4-5		1010				1021		S	1	✓	✓	02A
SB-2	1-2		1015				1021		S	1	✓	✓	03A
SB-2	4-5		1020				1021		S	1	✓	✓	04A
SB-3	1-2		1100				1115		S	1	✓	✓	05A
SB-4	1-2		1130				1135		S	1	✓	✓	06A
SB-4	4-5		1135				1135		S	1	✓	✓	07A
SB-5	1-2		1200				1205		S	1	✓	✓	08A
SB-5	4-5		1205				1205		S	1	✓	✓	09A
SB-6	1-2		1315				1318		S	1	✓	✓	10A
SB-6	3-4		1315				1318		S	1	✓	✓	11A
SB-7	1-2		1330				1410		S	1	✓	✓	12A
SB-7	4-5		1335				1410		S	1	✓	✓	13A
SB-8	1-2		1400				1410		S	1	✓	✓	14A
SB-8	4-5		1405				1410		S	1	✓	✓	15A

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 8/7/13

Remarks and Observations

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

Mobile Laboratory Services

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

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

CHAIN-OF-CUSTODY RECORD

2/2

MOBILE UNIT # 1CR2

CLIENT NAME: Heat & Hydman

PROJECT NAME & ADDRESS: Scotts #1 Greenville, NC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled · H HCL · Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOA's	8260 5ml's			COMMENT / SAMPLE PRE FIX: 2080713
SB-9 1-2	8/7/13	1530			8/7/13	1550		S	1	✓	✓			16A
SB-9 4-5	"	1535			"	1550		S	1	✓	✓			17A
SB-10 1-2	"	1545			"	1550		S	1	✓	✓			18A
SB-10 4-5	"	1550			"	1550		S	1	✓	✓			19A

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BH	Date / Time 8/7/13	

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

CHAIN-OF-CUSTODY RECORD

KB LABS Mobile Laboratory Services

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

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

MOBILE UNIT # KB2

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Scotts #1 Greenville, NC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled · H HCL · Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOA	8260 Soil Lab				COMMENT / SAMPLE PRE FIX: 20808I3
TMW-7	8/8/13	0950			8/8/13	0957		GW	2	✓					01A, 01B
TMW-6		0915				0957		GW	2	✓					02A, 02B (High Solids)
TMW-8		1005				1005		GW	2	✓					03A, 03B
TMW-1		1020				1035		GW	2	✓					04A, 04B
TMW-2		1030				1035		GW	2	✓					05A, 05B
TMW-4		1050				1107		GW	2	✓					06A, 06B
TMW-3		1100				1107		GW	2	✓					07A, 07B
TMW-9		1225				1335		GW	2	✓					08A, 08B
TMW-10		1235				1335		GW	2	✓					09A, 09B
TMW-5		1345				1417		GW	2	✓					10A, 10B
TMW-16		1410				1417		GW	2	✓					11A, 11B
TMW-11		1430				1515		GW	2	✓					12A, 12B
TMW-12		1445				1515		GW	2	✓					13A, 13B
TMW-14		1500				1515		GW	2	✓					14A, 14B
TMW-15		1515				1515		GW	2	✓					15A, 15B

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time: 8/9/13	

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

Mobile Laboratory Services

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

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

CHAIN-OF-CUSTODY RECORD

1/2

MOBILE UNIT # FB2

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Scott's #1 Greenville, NC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOA; No Soil Lab

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOA	No Soil Lab			2080913 COMMENT / SAMPLE PRE FIX
IDW-1	8/9/13				8/9/13	0905		W	1	✓				01A
TMW-15		0930				1017		GW	2	✓				02A, 02B
TMW-17		1010				1017		GW	2	✓				03A, 03B
SB-11 1-2		0955				1025		S	1	✓	✓			04A
SB-11 4-5		1000				1025		S	1	✓	✓			05A
SB-12 1-2		1035				1105		S	1	✓	✓			06A
SB-12 4-5		1040				1105		S	1	✓	✓			07A
SB-13 1-2		1050				1105		S	1	✓	✓			08A
SB-13 4-5		1055				1105		S	1	✓	✓			09A
SB-15 1-2		1125				1105		S	1	✓	✓			10A
SB-15 4-5		1130				1105		S	1	✓	✓			11A
SB-14 1-2		1110				1110		S	1	✓	✓			12A
SB-14 4-5		1115				1110		S	1	✓	✓			13A
SB-16 1-2		1135				1210		S	1	✓	✓			14A
SB-16 4-5		1140				1210		S	1	✓	✓			15A

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/9/13	

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

CHAIN-OF-CUSTODY RECORD

KB LABS
Mobile Laboratory Services

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

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

MOBILE UNIT # KB 2

CLIENT NAME: Hart & Hickman

PROJECT NAME & ADDRESS: Scotts #1 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.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOA	8260 SVOC				COMMENT / SAMPLE PRE FIX
															20809/3
SB-17 1-2	8/9/13	1150			8/9/13	1210		S	1	✓	✓				16A
SB-17 4-5		1155				1210		S	1	✓	✓				17A
SB-18 1-2		1250				1310		S	1	✓	✓				18A
SB-18 4-5		1255				1310		S	1	✓	✓				19A
SB-19 1-2		1315				1324		S	1	✓	✓				20A
SB-19 4-5		1320				1324		S	1	✓	✓				21A
IDW-1 Soil		1325				1324		S	1	✓	✓				22A

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)		Received by: (Signature) BH JR	Date / Time 8/9/13	

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

Facility Name:	Scott's Cleaners
	111 West 10th Street, Greenville, Pitt County
DSCA ID No.:	74-0010
Submittal Date:	October 29, 2013
Prepared By:	Hart & Hickman, PC
	2923 South Tryon Street, Suite 100, Charlotte, North Carolina 28203

Table of Contents		ADT TOC
DSCA ID No.: 74-0010		
Table/ Att. No.	**Description**	**Check box if included**
	Tables	
Table 1	Site Chronology	☑
Table 2	Analytical Data for Soil	☑
Table 3	Analytical Data for Sub-slab Gas	☐
Table 4	Analytical Data for Soil Gas	☐
Table 5	Analytical Data for Indoor and Outdoor Air	☐
Table 6	Monitoring Well Construction Data	☐
Table 7	Groundwater Elevation Data	☑
Table 8	Analytical Data for Groundwater	☑
Table 9	Analytical Data for Surface Water	☐
Table 10	Water Well(s) Survey Data	☑
Table 11	Analytical Data for Water Supply Well(s)	☐
Table 12	Analytical Data for Natural Attenuation Parameters	☐
	Attachments	
Att. 1	Site map showing location(s) of soil boring(s).	☐
Att. 2	Soil contaminant concentration maps showing the concentration at each sampling point.	☐
Att. 3	Soil isoconcentration maps.	☐
Att. 4	Site map showing location(s) of monitoring well(s).	☐
Att. 5	Well completion diagrams and records of construction submitted to state.	☐
Att. 6	Groundwater gradient map for each sampling event.	☐
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.	☐
Att. 8	Groundwater concentration trend plots.	☐
Att. 9	Map showing location(s) of surface water sample(s) (if applicable).	☐
Att. 10	Surface water concentration map showing the concentration at each sampling point (if applicable).	☐
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).	☐
Att. 12	Site map showing location(s) of monitoring well(s) for natural attenuation paramete	☐
Att. 13	Site map showing location(s) of indoor air, outdoor air, or soil gas samples.	☐
Att. 14	Air and soil gas concentration map showing the concentration at each sampling point.	☐
Att. 15	Signed laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation (only if not previously submitted).	☐
Att. 16		☐
Att. 17		☐
Att. 18		☐
Att. 19		☐
Att. 20		☐
Att. 21		☐

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.: 74-0010	
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.
mid-1900s-2004	Scott's Cleaners conducted dry-cleaning operations at the site. In 2004, dry-cleaning operations were relocated to another facility. Scott's Cleaners maintains a drop-off/pick-up store in a portion of the space that was formerly occupied by the dry-cleaning operations.
July 2012	PCE impacts were discovered at the Scott's Cleaners site during a Primary Site Assessment conducted by Catlin 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 19 soil borings (SB-1 through SB-19) and 17 temporary monitoring wells (TMW-1 through TMW-17). H&H personnel also surveyed top of casing elevations in select temporary monitoring wells to obtain groundwater flow direction. On October 29, 2013, H&H submitted a Prioritization Assessment Report to the DSCA Program documenting the assessment activities and results.

Table 2: Analytical Data for Soil **ADT 2**

DSCA ID No.: 74-0010

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)	1,2,4-Trimethylbenzene								
			[mg/kg]																			
SB-1	1-2	08/07/13	<0.012	<0.012	<0.012	NA	NA	**0.056**	<0.012	<0.012	<0.012	<0.012	<0.037	<0.012								
SB-1	4-5	08/07/13	<0.013	<0.013	<0.013	NA	NA	**0.10**	<0.013	<0.013	<0.013	<0.013	<0.038	<0.013								
SB-2	1-2	08/07/13	<0.012	<0.012	<0.012	NA	NA	0.014	<0.012	<0.012	<0.012	<0.012	<0.035	<0.012								
SB-2	4-5	08/07/13	<0.013	<0.013	<0.013	NA	NA	**0.073**	<0.013	<0.013	<0.013	<0.013	<0.039	<0.013								
SB-3	1-2	08/07/13	<0.011	0.006J	<0.011	NA	NA	**0.43**	<0.011	<0.011	0.006J	<0.011	<0.032	<0.011								
SB-4	1-2	08/07/13	<0.011	0.011	<0.011	NA	NA	**10**	<0.011	<0.011	0.047	<0.011	<0.033	<0.011								
SB-4	4-5	08/07/13	<0.013	0.016	<0.013	NA	NA	**2.0**	<0.013	<0.013	0.030	<0.013	<0.038	<0.013								
SB-5	1-2	08/07/13	<0.011	0.075	<0.011	NA	NA	**11**	<0.011	<0.011	**0.17**	<0.011	<0.033	<0.011								
SB-5	4-5	08/07/13	<0.013	0.38	<0.013	NA	NA	**3.2**	<0.013	0.005J	**0.30**	<0.013	<0.039	<0.013								
SB-6	1-2	08/07/13	<0.011	<0.011	<0.011	NA	NA	0.002J	<0.011	<0.011	<0.011	<0.011	<0.033	<0.011								
SB-6	3-4	08/07/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.035	<0.012								
SB-7	1-2	08/07/13	<0.011	<0.011	<0.011	NA	NA	0.003J	<0.011	<0.011	<0.011	<0.011	<0.033	<0.011								
SB-7	4-5	08/07/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.033	<0.011								
SB-8	1-2	08/07/13	<0.010	<0.010	<0.010	NA	NA	**0.090**	<0.010	<0.010	<0.010	<0.010	<0.031	<0.010								
SB-8	4-5	08/07/13	<0.011	<0.011	<0.011	NA	NA	0.005J	<0.011	<0.011	<0.011	<0.011	<0.032	<0.011								
SB-9	1-2	08/07/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.033	<0.011								
SB-9	4-5	08/07/13	<0.013	<0.013	<0.013	NA	NA	**0.046**	<0.013	<0.013	<0.013	<0.013	<0.038	<0.013								
SB-10	1-2	08/07/13	<0.011	<0.011	<0.011	NA	NA	0.007J	<0.011	<0.011	<0.011	<0.011	<0.033	<0.011								
SB-10	4-5	08/07/13	<0.013	<0.013	<0.013	NA	NA	**0.057**	<0.013	<0.013	<0.013	<0.013	<0.039	<0.013								
SB-11	1-2	08/09/13	<0.012	<0.012	0.007J	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	0.015J	0.088								
SB-11	4-5	08/09/13	<0.012	<0.012	<0.012	NA	NA	0.013	<0.012	<0.012	<0.012	<0.012	<0.036	0.012								
SB-12	1-2	08/09/13	<0.011	0.003J	<0.011	NA	NA	0.021	<0.011	<0.011	<0.011	<0.011	<0.033	0.003J								
SB-12	4-5	08/09/13	<0.012	<0.012	<0.012	NA	NA	0.004J	<0.012	<0.012	<0.012	<0.012	<0.036	<0.012								
SB-13	1-2	08/09/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.033	<0.011								
SB-13	4-5	08/09/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.035	<0.012								
SB-14	1-2	08/09/13	<0.013	<0.013	<0.013	NA	NA	0.006J	<0.013	<0.013	<0.013	<0.013	<0.039	<0.013								
SB-14	4-5	08/09/13	<0.012	<0.012	<0.012	NA	NA	0.005J	<0.012	<0.012	<0.012	<0.012	<0.036	<0.012								

Table 2: Analytical Data for Soil **ADT 2**

DSCA ID No.: 74-0010

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)	1,2,4-Trimethylbenzene								
			[mg/kg]																			
SB-15	1-2	08/09/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.037	<0.012								
SB-15	4-5	08/09/13	<0.013	<0.013	<0.013	NA	NA	<0.013	<0.013	<0.013	<0.013	<0.013	<0.039	<0.013								
SB-16	1-2	08/09/13	<0.011	<0.011	<0.011	NA	NA	0.013	<0.011	<0.011	<0.011	<0.011	<0.033	<0.011								
SB-16	4-5	08/09/13	<0.012	0.014	<0.012	NA	NA	**0.31**	<0.012	<0.012	0.012	<0.012	<0.037	<0.012								
SB-17	1-2	08/09/13	<0.011	<0.011	<0.011	NA	NA	<0.011	<0.011	<0.011	<0.011	<0.011	<0.032	<0.011								
SB-17	4-5	08/09/13	<0.012	<0.012	<0.012	NA	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.036	<0.012								
SB-18	1-2	08/09/13	<0.011	0.024	<0.011	NA	NA	**1.1**	<0.011	<0.011	0.051	<0.011	<0.033	<0.011								
SB-18	4-5	08/09/13	<0.012	<0.012	<0.012	NA	NA	**0.20**	<0.012	<0.012	0.004J	<0.012	<0.036	<0.012								
SB-19	1-2	08/09/13	<0.45	0.18J	<0.45	NA	NA	**18**	<0.45	<0.45	**0.16J**	<0.45	<1.34	<0.45								
SB-19	4-5	08/09/13	<0.95	<0.95	<1.9	NA	NA	**48**	<0.95	<0.95	<0.95	<0.95	<1.90	<0.95								
DSCA Tier 1 RBSL			0.034	1.1	51	0.18	1.6	0.023	29	1.5	0.067	0.00079	36	45								

Notes:
1. NA denotes Not Analyzed
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).

Table 7: Groundwater Elevation Data **ADT 7**

DSCA ID No.: 74-0010

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	08/08/13	100.00	9.89	90.11	--	--	--
TMW-2	08/08/13	98.86	8.65	90.21	--	--	--
TMW-6	08/08/13	101.84	11.12	90.72	--	--	--
TMW-7	08/08/13	100.50	9.94	90.56	--	--	--
TMW-8	08/08/13	100.34	8.85	91.49	--	--	--
TMW-10	08/08/13	97.60	8.27	89.33	--	--	--

Note: TOC elevations surveyed by H&H personnel on 8/8/13. 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.: 74-0010

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)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene							
		[mg/L]																			
TMW-1	08/08/13	<0.0010	0.0004J	<0.0010	NA	NA	**0.0714**	<0.0010	<0.0010	0.001J	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-2	08/08/13	<0.0010	<0.0010	<0.0010	NA	NA	0.0006J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-3	08/08/13	<0.010	0.016	<0.010	NA	NA	**0.14**	<0.010	<0.010	**0.0083J**	<0.010	<0.030	<0.010	<0.010							
TMW-4	08/08/13	<0.050	0.049J	<0.050	NA	NA	**1.7**	<0.050	<0.050	**0.055**	<0.050	<0.150	<0.050	<0.050							
TMW-5	08/08/13	<0.010	<0.010	<0.010	NA	NA	**0.28**	<0.010	<0.010	**0.0063J**	<0.010	<0.030	<0.010	<0.010							
TMW-6	08/08/13	<0.0010	<0.0010	<0.0010	NA	NA	<0.00070	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-7	08/08/13	<0.0010	<0.0010	<0.0010	NA	NA	<0.00070	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-8	08/08/13	<0.0010	<0.0010	<0.0010	NA	NA	<0.00070	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-9	08/08/13	<0.0010	<0.0010	<0.0010	NA	NA	**0.0009J**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-10	08/08/13	<0.0010	0.0025	<0.0010	NA	NA	**0.0388**	<0.0010	<0.0010	0.0006J	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-11	08/08/13	<0.010	0.0078J	<0.010	NA	NA	**0.23**	<0.010	<0.010	**0.012**	<0.010	<0.030	<0.010	<0.010							
TMW-12	08/08/13	<0.0020	0.024	<0.0020	NA	NA	**0.034**	<0.0020	<0.0020	**0.0029**	<0.0020	<0.0060	<0.0020	<0.0020							
TMW-13	08/08/13	<0.0010	0.0005J	<0.0010	NA	NA	**0.0611**	<0.0010	<0.0010	0.0008J	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-14	08/08/13	<0.0010	0.0006J	<0.0010	NA	NA	**0.0512**	<0.0010	<0.0010	0.0003J	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-15	08/09/13	<0.0010	<0.0010	<0.0010	NA	NA	0.0005J	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010	<0.0010							
TMW-16	08/08/13	<0.050	0.024J	<0.050	NA	NA	**2.4**	<0.050	<0.050	**0.070**	<0.050	<0.150	<0.050	<0.050							
TMW-17	08/09/13	**0.0038**	<0.0010	**0.0764**	NA	NA	**0.0014**	0.0042	<0.0010	<0.0010	<0.0010	**0.1656**	0.75	0.0999							
DSCA Tier 1 RBSL		0.001	0.07	0.003	0.02	0.004	0.0007	0.6	0.076	0.001	0.00003	0.094	5.8	0.4							

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).

Table 10: Water Well(s) Survey Data **ADT 10**

DSCA ID No.: 74-0010

Ref. No./ Well ID	Sampling Location Name and Address	Property Owner Name, Address, and Phone Number	Tenant Name, Address, and Phone Number	Distance from Source [feet]	Well Depth [feet]	Screen Interval [feet]	Use of Well	Source of Well Identification	Direction (downgradient, upgradient, etc., to source area)	Status (Active/ Inactive)
1	200th W. 13th Street Greenville, NC	City of Greenville PO Box 7207 Greenville, NC 27835	N/A	1,800	unknown	unknown	Community well	Receptor survey	Upgradient	Active