


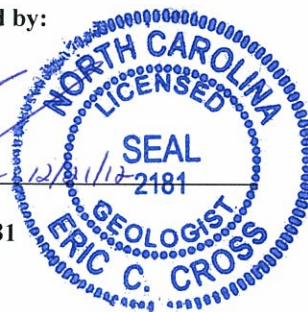
PRELIMINARY SITE ASSESSMENT
STUART LEWIS PROPERTY – PARCEL 071
STANLEY FENCING COMPANY
14120 NC 210 SOUTH
SPRING LAKE, HARNETT COUNTY, NORTH CAROLINA
STATE PROJECT: U-3465
WBS ELEMNT: 39017.1.1
December 17, 2012

Report prepared for:


Mr. Gordon Box, LG
GeoEnvironmental Project Manager
GeoEnvironmental Section
Geotechnical Engineering Unit
North Carolina Department of Transportation
1020 Birch Ridge Drive
Raleigh, NC 27610

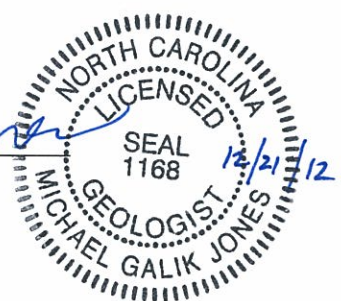
Report prepared by:


Eric Cross, LG
NC License #2181



Report reviewed by:


Michael G. Jones, LG
NC License #1168



PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.
P.O. BOX 16265
GREENSBORO, NC 27416-0265
(336) 335-3174

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-

**PRELIMINARY SITE ASSESSMENT
STUART LEWIS PROPERTY – PARCEL 071
STANLEY FENCING COMPANY
SPRING LAKE, HARNETT COUNTY, NORTH CAROLINA**

1.0 Introduction

Pyramid Environmental & Engineering P.C. (Pyramid) has prepared this Preliminary Site Assessment (PSA) report documenting background information, field activities, assessment activities, findings, conclusions, and recommendations for the Stuart Lewis Property (Parcel 071). The Stuart Lewis Property (Parcel 071) is currently Stanley Fencing Company, a commercial fence dealership and storage yard, located at 14120 NC 210 South in Spring Lake, Harnett County, NC. This preliminary site assessment was conducted on behalf of the North Carolina Department of Transportation (NCDOT) in accordance with Pyramid's August 17, 2012 technical proposal.

The purpose of this assessment was to determine the presence or absence of underground storage tanks (USTs) and impacted soils at the subject property in the proposed right-of-way and construction easement areas related to the widening of Ray Road (State Project U-3465). The location of the subject site is shown on **Figure 1**, and a site map is presented as **Figure 2**. **Figure 3** presents a scaled out perspective of the entire Parcel showing property boundaries, property owner name, and station number/alignment, from the NCDOT engineering files provided to Pyramid.

1.1 Background Information

Based on the NCDOT's July 23, 2012, *Request for Technical and Cost Proposal*, the PSA was conducted within the NCDOT right of way (ROW), easements, or proposed utility easements. The PSA included the following:

- Research the property for past uses and possible releases.
- Conduct a preliminary geophysical site assessment and limited soil assessment in the proposed ROW and easements.
- Report the depth to groundwater and attempt to obtain one groundwater sample for the site for laboratory analysis by installing a temporary monitoring well.

1.2 Project Information

Prior to field activities, a Health and Safety Plan was prepared. Prior to drilling activities, the public underground utilities were located and marked by the North Carolina One-Call Service. A private utility locator, Northstate Utility Locating Incorporated of Colfax, North Carolina was used to mark the on site private, buried utilities.

As stated previously, the Stuart Lewis Property (Parcel 071) is currently Stanley Fencing Company, a commercial fence dealership and storage area.

Pyramid also completed PSAs for an additional seven properties along Ray Road (Parcel #'s 004, 009, 019, 021, 022, 038, and 069). As requested by the NCDOT, Pyramid prepared separate PSA reports for each property.

2.0 Site History

Pyramid completed a records review, NCDENR file review, interviewed NCDENR personnel, and reviewed aerial photographs in order to determine past uses of the property. Pyramid reviewed the 1938, 1955, 1964, 1971, 1993, 1999, and 2010 aerial photographs for past uses. The 1955, 1964, 1971, 1993, 2010 aerial photographs are included in **Appendix A**. Historical information reviewed as part of the PSA indicated that the subject site was first developed for commercial use between 1971 and 1993. The earliest aerial to show the building now serving as the fence company was the 1993 aerial. The 1938, 1955, and 1964 aerials show the property to be partially cleared but containing no buildings, suggesting it was used as a storage yard or for agricultural purposes. The 1971 air photo shows the property to be undeveloped semi-wooded land.

On September 4, 2012, Pyramid interviewed Mr. James Brown, the incident manager for Harnett County with the NCDENR UST Section. Mr. Brown stated no incidents or releases were in the state database for the site.

As part of the PSA, a background review to identify onsite and potential off-site sources of environmental contamination was performed. The background review included Federal and Non-Federal database searches. FirstSearch Technology Corporation, a commercially available database service was used for the search. Pyramid ordered a road corridor search for the Ray Road and NC 210 sites. The database search did not list Parcel 071 in any Federal, Non-Federal or State environmental databases. The Environmental FirstSearch Report is included in **Appendix B**.

3.0 Geophysical Investigation

Geophysical investigation results indicate there are no metallic Underground Storage Tanks located on the property. Using a combination of electromagnetic (EM61) and Ground Penetrating Radar (GPR) methods, Pyramid obtained reliable geophysical data. The majority of the EM61 anomalies were directly attributable to objects that were visible at the ground surface. Any EM61 anomalies (mostly low amplitude) that were recorded throughout the survey area that could not be attributed to visible objects at the ground surface were further examined by GPR scans. However, the GPR surveys did not indicate the presence of any metallic USTs associated with the EM61 responses.

The geophysical investigation suggests that the proposed ROW and easement areas at the property do not contain metallic USTs. The full details of the geophysical investigation are included in the Geophysical Investigation Report as **Appendix C**.

4.0 Soil Sampling Activities & Results

4.1 Soil Assessment Field Activities

On December 3, 2012, Pyramid mobilized to the site to drill soil borings, install a temporary monitoring well, and collect the proposed soil samples and groundwater samples for the PSA. The soil borings and temporary well were completed using a track mounted Geoprobe® Direct-Push rig. Four (4) soil borings (071-1, 071-2, 071-3, and 071-4) were advanced on the subject property between the NCDOT ROW and Easement. The selected locations were chosen to avoid public utilities along Ray Road and NC-210, and private utilities associated with the business. The locations of the borings are shown on **Figure 2**.

Soil samples were continuously collected in five foot long disposable sleeves from each boring for geologic description, and visual examination for signs of contamination. Soil recovered from each sleeve was field screened using a Photo-Ionization Detector (PID) every 2 to 2.5 feet depending on the soil recovery of each sleeve. In general, the soil sample with the highest PID readings was selected from each boring for laboratory analysis. The soil boring logs with the soil descriptions, visual examination, and PID screening results are included in **Appendix D**. The PID field screening results are summarized in **Table 1**.

In order to prevent cross contamination, new disposable nitrile gloves were worn by the sampling technician during the sampling activities, and were changed between samples. The soil samples selected for laboratory analyses were placed in laboratory prepared containers and shipped to SGS Laboratories in Wilmington, NC. The selected soil samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) by EPA Method 8015C/5035 and diesel range organics (DRO) by EPA Method 8015C/3541.

4.2 Soil Sample Analytical Results

The laboratory results for soil samples 071-1(3-5), 071-2(3-5), 071-3(3-5) and 071-4(6-10) detected TPH-GRO concentrations ranging from 0.514 to 0.669 mg/kg. Soil samples 071-1(3-5) and 071-4(6-10) did not detect TPH-DRO concentrations above the laboratory detection limits. The NCDENR action levels for TPH-GRO and TPH-DRO is 10 mg/kg. Soil sample 071-3(3-5) detected TPH-DRO above the laboratory detection limit but below the NCDENR action level of 10 mg/kg. Soil sample 071-2(3-5) detected TPH-

DRO at a concentration of 12.8 mg/kg. The source of this concentration was not evident in the field, and no petroleum odors were observed. The soil sample laboratory results are summarized in **Table 2**. A copy of the laboratory report and chain-of-custody is included in **Appendix E**.

4.3 Temporary Monitoring Well Installation

On December 3, 2012, Pyramid converted soil boring 071-3 into a 1-inch diameter temporary monitoring well. Soil boring 071-3 was completed to a total depth of 36 feet bls. The temporary well was constructed with 26 feet of 1-inch diameter of schedule 80 PVC casing and 10 feet of 1-inch diameter of schedule 80 PVC slotted screen. The temporary well was set in the boring with 10 feet of slotted screen at the bottom of the well.

On December 3, 2012, temporary monitoring well 071-3 was gauged using a properly decontaminated electric water level probe. The depth-to-groundwater was not detected after personnel waited for 2 hours for groundwater to intrude into the well. For this reason, groundwater was not sampled or analyzed at Parcel 071. After the two-hour waiting period, the temporary monitoring well was properly abandoned by the drillers by removing all the casing, and filling the bore hole with bentonite chips and portland cement.

4.4 Groundwater Analytical Results

As discussed above, groundwater was not present in the temporary monitoring well after waiting for two hours. For this reason, a groundwater sample was not obtained at Parcel 071, and groundwater analytical results are not available.

5.0 Conclusions and Recommendations

As requested by NCDOT, Pyramid has completed a PSA at Parcel 071 located 14120 NC 210 S, Harnett County, Spring Lake, NC. The following is a summary of the assessment activities and results.

5.1 Geophysical Investigation

The geophysical investigation suggests that the proposed ROW and easement areas at the property do not contain metallic USTs. Several anomalies were detected related to visible objects, such as a power pole and utility box, metal water meter lids and caps, vehicles, a metal guy wire, and metal signs. Any EM61 anomalies not directly attributable to visible objects at the ground surface were likely the result of isolated buried metallic debris. GPR scans performed across all anomalies not clearly associated with metallic objects at the ground surface provided no evidence of metallic USTs.

5.2 Limited Soil Assessment

The laboratory results for soil sample 071-2(3-5) detected TPH-DRO at a concentration of 12.8 mg/kg, which is slightly above NCDENR action levels of 10 mg/kg. Soil sample 071-3(3-5) detected TPH-DRO above the laboratory detection limit but below the NCDENR action level of 10 mg/kg. The remaining soil samples did not detect any TPH-DRO or TPH-GRO concentrations above laboratory detection limits. TPH-GRO was detected at estimated minor concentrations (below 1 mg/kg) in the four samples.

5.3 Limited Groundwater Assessment

Soil boring 071-3 was converted into a 1-inch diameter temporary monitoring well to a depth total depth of 36 feet bls. However, after waiting for approximately 2 hours, groundwater was not detected in the well, and it was deemed to be a dry well and abandoned. For this reason, no groundwater analytical results were obtained for Parcel 071.

5.4 Recommendations

During road construction activities, it is possible the NCDOT may encounter petroleum impacted soil over the NCDENR Action Levels near soil boring 071-2, however, the source of this petroleum was not evident in the field.

Pyramid estimates approximately 115 cubic yards of petroleum impacted soil between 0 to 5 feet bls at the location of soil boring 071-2. If the impacted soil is excavated from the surface to a depth of 5 feet bls, an estimate of roughly 115 cubic yards of petroleum impacted soil may be encountered. If impacted soil is encountered and removed at the location of soil boring 071-2, the impacted soil should be managed according to NCDENR DWM UST Section Guidelines and disposed of at a permitted facility.

Most petroleum impacted soil from an unknown source would be considered non-hazardous waste.

6.0 Limitations

The results of this preliminary investigation are limited to the boring locations completed during this limited assessment and presented in this report. No groundwater sample could be collected because the temporary monitoring well was dry. The laboratory results only reflect the current conditions at the locations sampled on the date this Preliminary Site Assessment was performed.

7.0 Closure

This report was prepared for, and is available solely for use by NCDOT and their designees. The contents thereof may not be used or relied upon by any other person without the express written consent and authorization of Pyramid Environmental & Engineering, P.C. (Pyramid). The observations, conclusions, and recommendations documented in this report are based on site conditions and information reviewed at the time of Pyramid's investigation. Pyramid appreciates the opportunity to provide this environmental service.

FIGURES

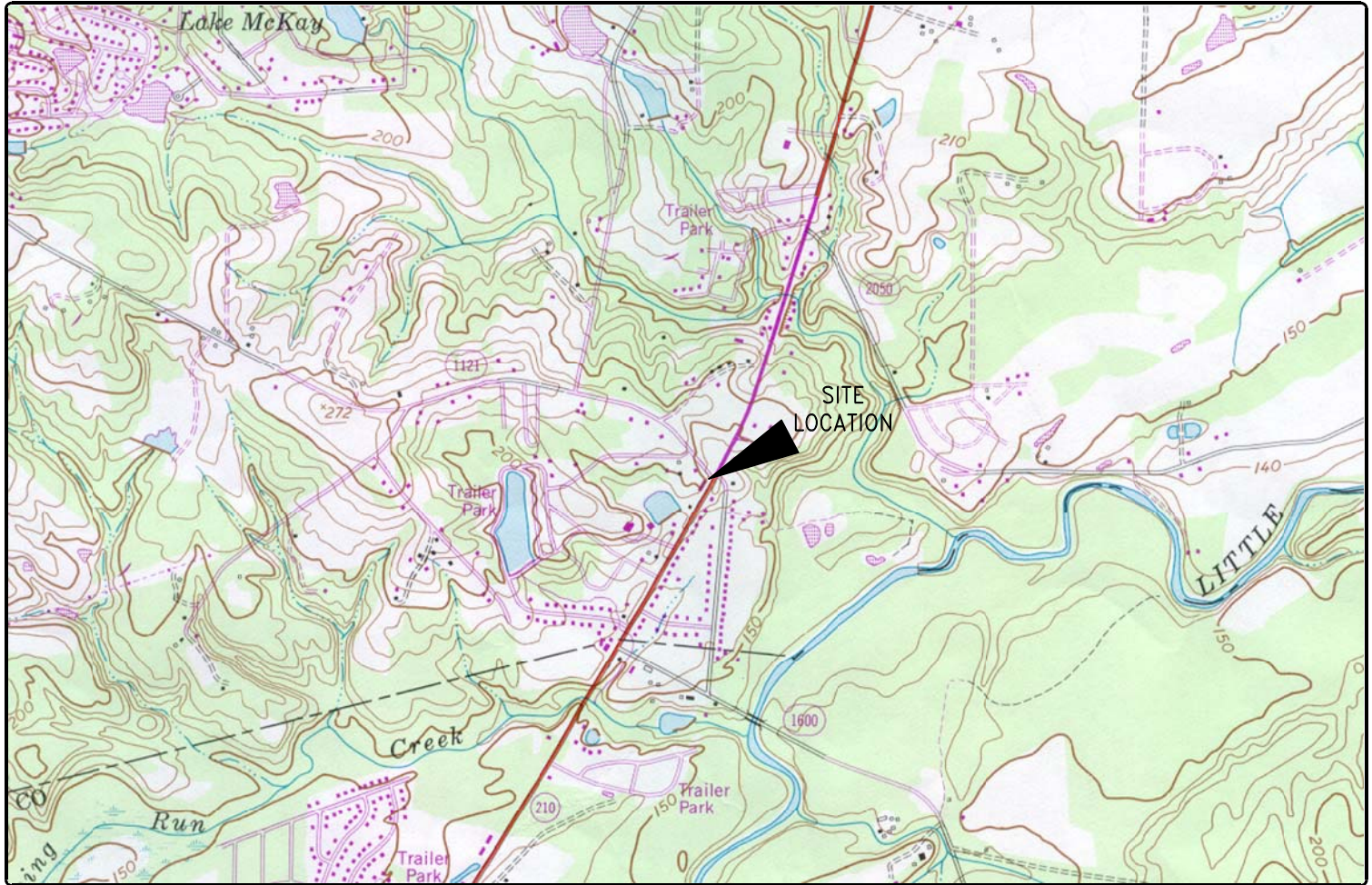
USGS TOPOGRAPHIC MAP

SITE:

14120 S. NC 210

LOCATION:

SPRING LAKE, NORTH CAROLINA



USGS IDENTIFICATION

USGS 7.5 MINUTE MAP

MANCHESTER, NC

ORIGINAL DATE:

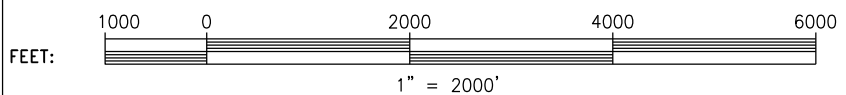
1957

PHOTOREVISION DATE:

1987

	PRIMARY HIGHWAY, HARD SURFACE
	SECONDARY HIGHWAY, HARD SURFACE
	LIGHT-DUTY ROAD HARD OR IMPROVED SURFACE
	UNIMPROVED ROAD
	STATE ROAD
	U.S. ROUTE
	INTERSTATE ROUTE

SCALES

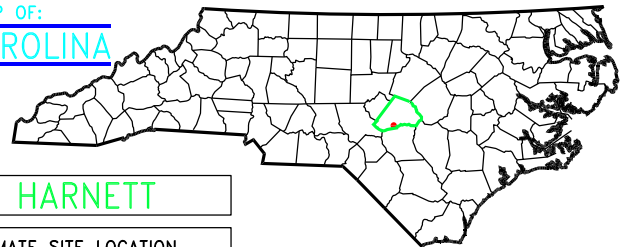


- NOTES: TOPOGRAPHICAL CONTOUR INTERVAL = 10 FEET
 PHOTOREVISIONS DENOTED IN PURPLE

MAGNETIC NORTH



COUNTY MAP OF:
NORTH CAROLINA



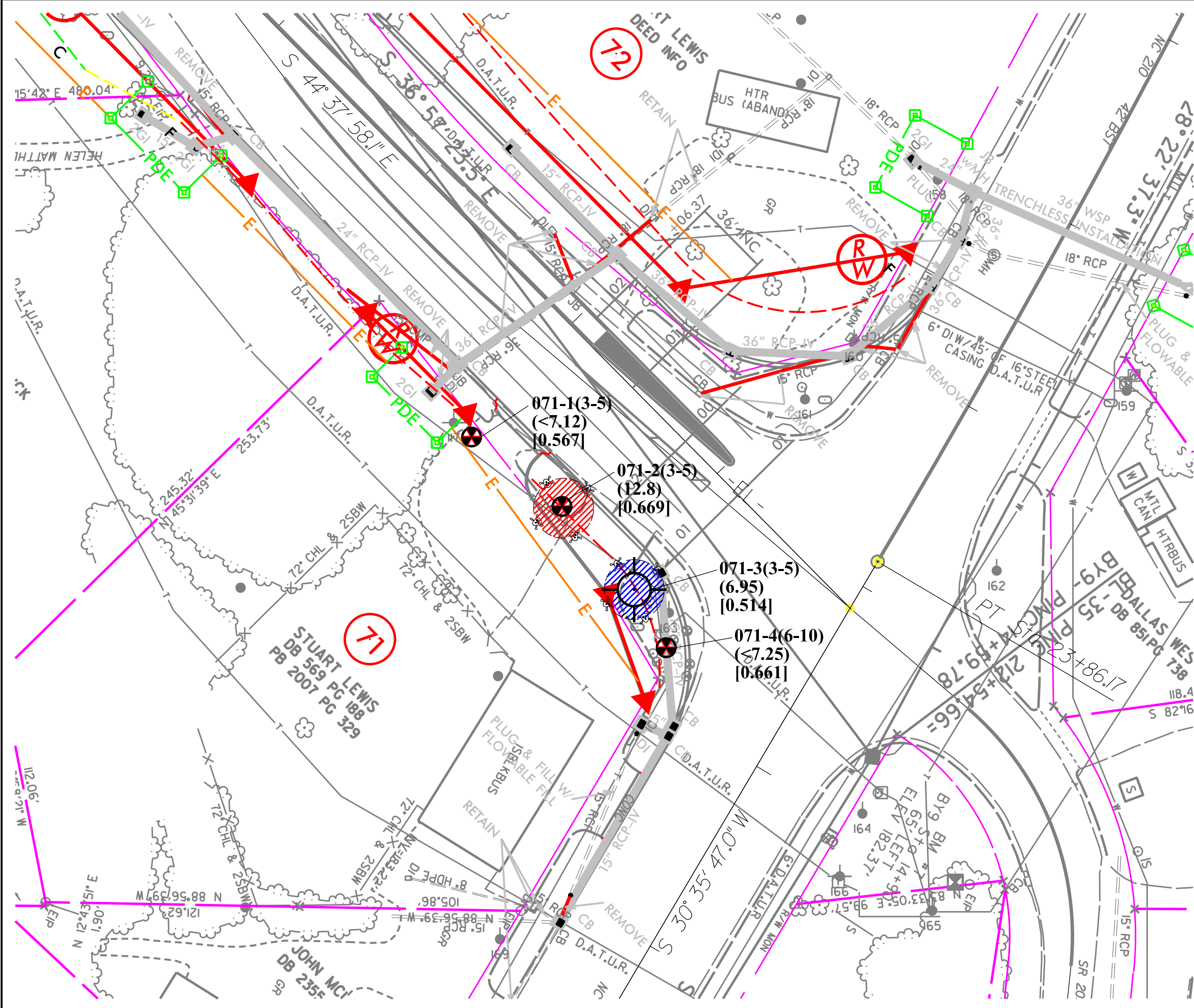
	COUNTY: HARNETT
	APPROXIMATE SITE LOCATION



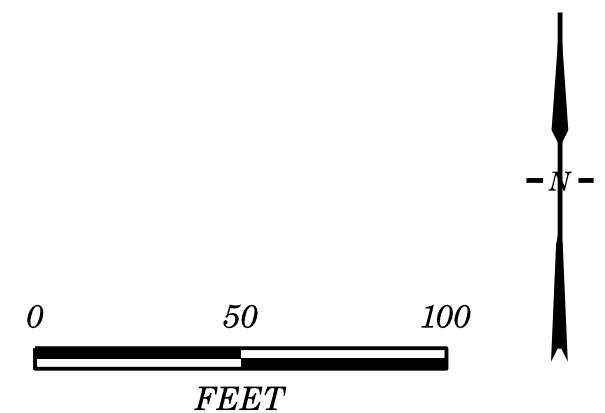
CLIENT:	NC DOT U-3465
PROPERTY NAME:	14120 S. NC 210 PARCEL 071
CITY:	SPRING LAKE
STATE:	NORTH CAROLINA
TITLE:	TOPOGRAPHIC MAP


SCALE:	1"=2000'
DRAWN BY:	KAM
CHECK BY:	TDL
DATE:	9/21/12
JOB NO.:	2012-228
DRAWING NAME:	USGSTOPO
TYPE:	PHASE II
FIGURE NUMBER:	1

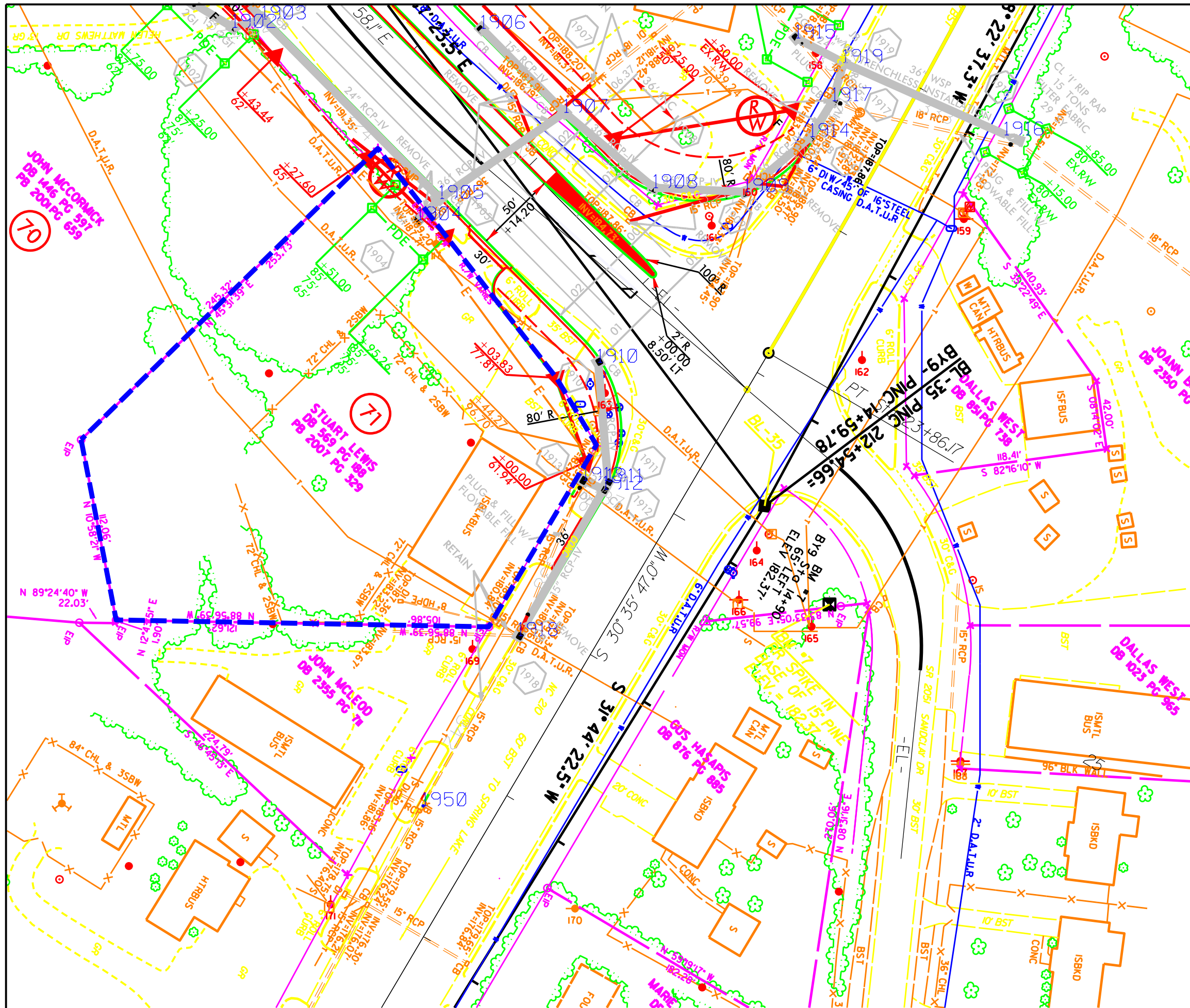
NOTES
TOPOGRAPHIC MAP USED IN THIS GRAPHIC IS MAPPED, EDITED, AND PUBLISHED BY THE UNITED STATES GEOLOGIC SURVEY, DEPARTMENT OF THE INTERIOR, RESTON VIRGINIA.
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS.



- ### LEGEND
- PUE PROPOSED UTILITY EASEMENT
 - EXISTING ROW
 - EXISTING PROPERTY BOUNDARY
 - PROPOSED ROW
 - PROPOSED CONST. EASEMENT
 - PROP. DRAINAGE UTIL. EASEMENT
 - - - PROPOSED SS CUT LINE
 - - - PROPOSED SS FILL LINE
 - - - PROPOSED SS TRANSITION LINE
 - PROPOSED DRAINAGE PIPING
 - PDE PROPOSED DRAINAGE EASEMENT
 - PROPOSED CATCH BASIN
 - SOIL SAMPLE BORING LOCATION
 - BORING CONVERTED TO MW
 - AREA OF CONTAMINATION (>BDL, <math><10</math> PPM)
 - AREA OF CONTAMINATION (>10 PPM)
 - UST POSSIBLE UST
 - UST PROBABLE UST
- <math><6.1</math> TPH-DRO concentration (mg/kg)
 [<math><6.1</math>] TPH-GRO concentration (mg/kg)

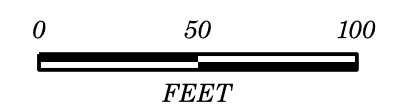


TITLE SOIL BORING LOCATIONS AND ESTIMATED AREA OF CONTAMINATION	
PROJECT NCDOT ROW PROJECT U-3465 (3907.1.1) STUART LEWIS PROPERTY - PARCEL 071 RAY ROAD, HARNETT COUNTY, NORTH CAROLINA	
 PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.	503 INDUSTRIAL AVENUE GREENSBORO, NC 27406 336.335.3174 (p) 336.691.0648 (f) License # C1251 Eng. / #C257 Geology
DATE: 9-19-12	REVISION NO. 0
PYRAMID PROJECT NO. 2012-228	FIGURE NO. 2



LEGEND

- PUE PROPOSED UTILITY EASEMENT
- EXISTING ROW
- EXISTING PROPERTY BOUNDARY
- PROPOSED ROW
- PROPOSED CONST. EASEMENT
- PROP. DRAINAGE UTIL. EASEMENT
- PROPOSED SS CUT LINE
- - - PROPOSED SS FILL LINE
- - - PROPOSED SS TRANSITION LINE
- PROPOSED DRAINAGE PIPING
- PDE PROPOSED DRAINAGE EASEMENT
- PROPOSED CATCH BASIN
- SOIL SAMPLE BORING LOCATION
- BORING CONVERTED TO MW
- AREA OF CONTAMINATION (>BDL, <10 PPM)
- AREA OF CONTAMINATION (>10 PPM)
- UST POSSIBLE UST
- UST PROBABLE UST
- (<6.1) TPH-DRO concentration (mg/kg)
- [<6.1] TPH-GRO concentration (mg/kg)
- - - PARCEL 071 BOUNDARY



TITLE	PROPERTY BOUNDARIES AND OWNER/STATION INFORMATION
PROJECT	NCDOT ROW PROJECT U-3465 (3907.1.1) STUART LEWIS PROPERTY - PARCEL 071 RAY ROAD, HARNETT COUNTY, NORTH CAROLINA
	503 INDUSTRIAL AVENUE GREENSBORO, NC 27406 336.335.3174 (p) 336.691.0648 (f) License # C1251 Eng. / #C257 Geology
DATE: 9-19-12	REVISION NO. 0
PYRAMID PROJECT NO. 2012-228	FIGURE NO. 3

TABLES

TABLE 1
Summary of PID Screening Results
 NCDOT Project U-3465
 14120 NC 210 S - Parcel 071
 Harnett County, Spring Lake, North Carolina

SOIL BORING	SAMPLE ID	DEPTH (feet bgs)	PID READINGS (PPM)
071-1	071-1(1-3)	1 to 3	0
	071-1(3-5)	3 to 5	0
	071-1(8-10)	8 to 10	0
071-2	071-2(1-3)	1 to 3	0
	071-2(3-5)	3 to 5	400
	071-2(6-8)	6 to 8	65
	071-2(8-10)	8 to 10	0
071-3	071-3(1-3)	1 to 3	0
	071-3(3-5)	3 to 5	0
	071-3(7-10)	7 to 10	0
071-4	071-4(2-3)	2 to 3	0
	071-4(3-4)	3 to 4	0
	071-4(6-10)	6 to 10	1.1

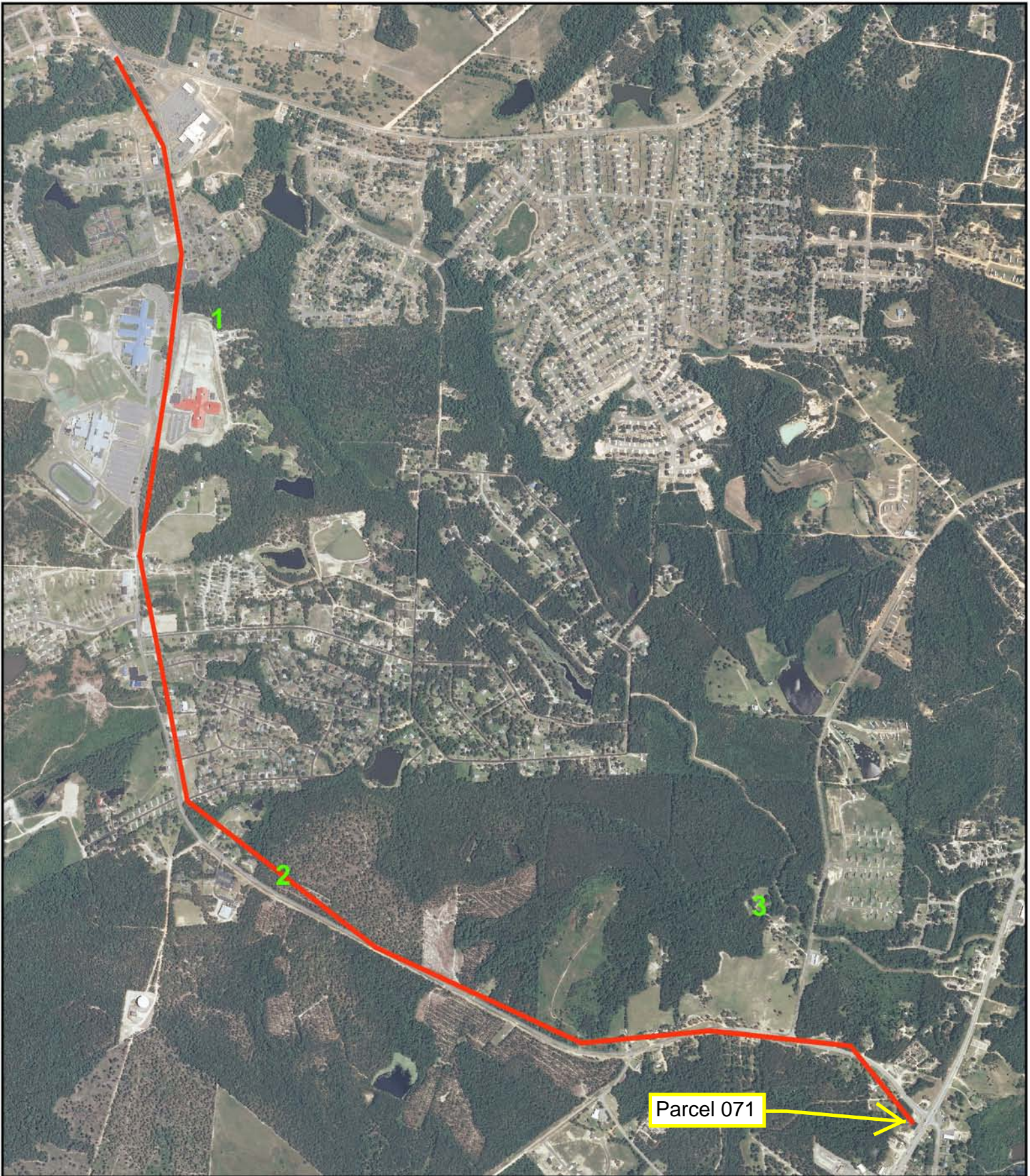
bgs= below ground surface
 PID= photo-ionization detector
 PPM= parts-per-million

TABLE 2
Summary of Soil Sample $\mu\text{g/l}$ Analytical Results
 NCDOT Project U-3465
 14120 NC 210 S - Parcel 071
 Harnett County, Spring Lake, North Carolina

SAMPLE ID	DATE	DEPTH (feet)	PID (ppm)	EPA Method 3550 DRO (mg/kg)	EPA Method 5035 GRO (mg/kg)
071-1(3-5)	12/3/2012	3 to 5	0	<7.12	0.567 J
071-2(3-5)	12/3/2012	3 to 5	400	12.8	0.669 J
071-3(3-5)	12/3/2012	3 to 5	0	6.95	0.514 J
071-4(6-10)	12/3/2012	6 to 10	1.1	<7.25	0.611 J
NC Initial Cleanup Level - UST Section for 5035/5030-GRO; 3550-DRO				10	10

PID= photo-ionization detector GRO= Gasoline Range Organics
 PPM= parts-per-million DRO= Diesel Range Organics
 J= estimated concentration mg/kg= micrograms-per-kilogram

APPENDIX A



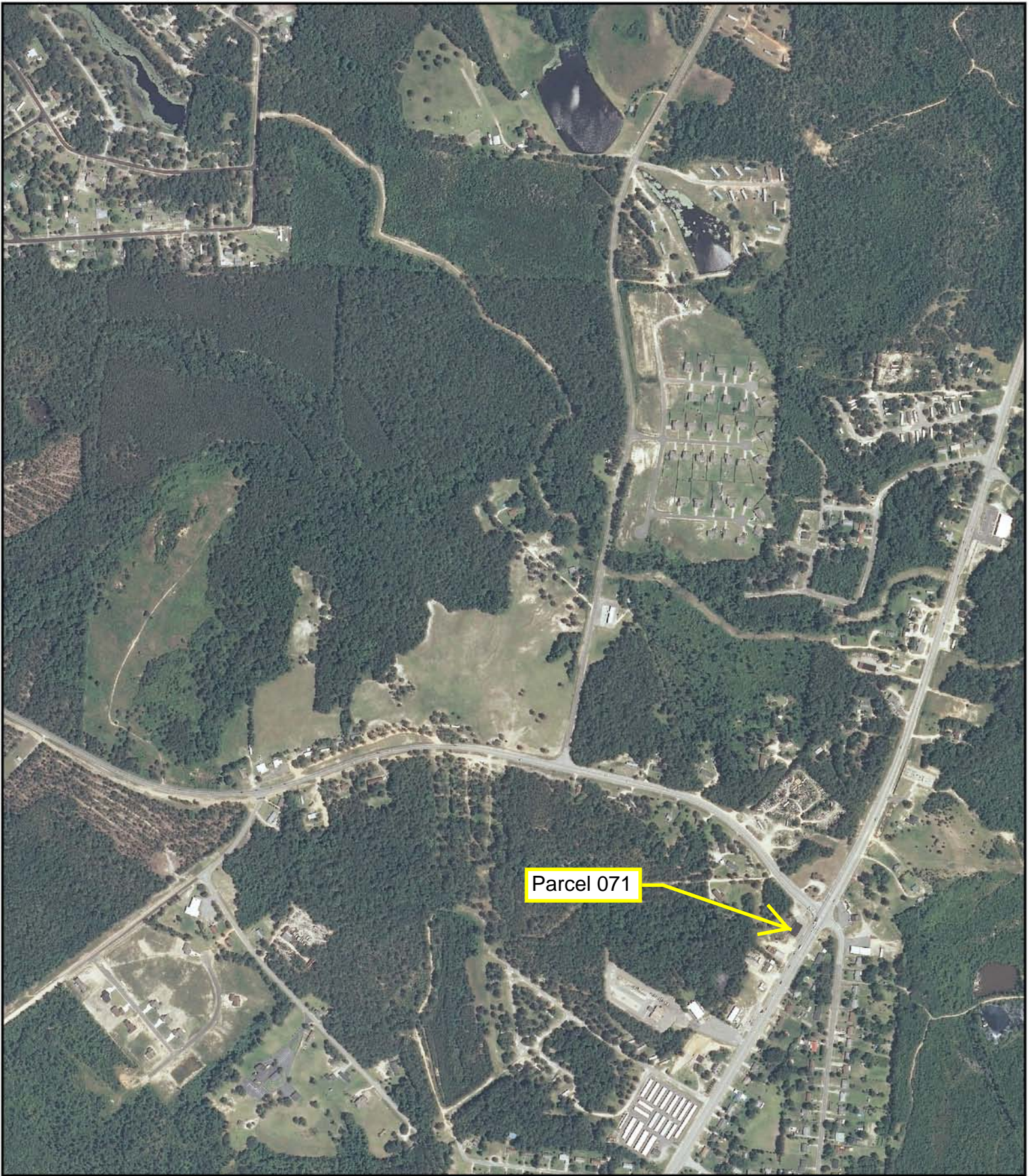
Historical Aerial Photo
2010 - REFERENCE MOSAIC
SR 1121 FROM NC 210 TO SR 1120
SPRING LAKE, NC 28390



Target Site: 35.240729, -78.953625; Job Number: 2012-228



1 inch equals 1,416 feet



Parcel 071

Historical Aerial Photo
2010 - SECTION 3

**SR 1121 FROM NC 210 TO SR 1120
SPRING LAKE, NC 28390**



FIRSTSEARCH

Target Site: 35.240729, -78.953625; Job Number: 2012-228

1 inch equals 750 feet



Historical Aerial Photo
1999 - SECTION 3

**SR 1121 FROM NC 210 TO SR 1120
SPRING LAKE, NC 28390**

Target Site: 35.240729, -78.953625; Job Number: 2012-228



1 inch equals 750 feet



Parcel 071

Historical Aerial Photo
1993 - SECTION 3

**SR 1121 FROM NC 210 TO SR 1120
SPRING LAKE, NC 28390**

Target Site: 35.240729, -78.953625; Job Number: 2012-228

FIRSTSEARCH



1 inch equals 750 feet



Historical Aerial Photo
1971 - SECTION 3

**SR 1121 FROM NC 210 TO SR 1120
SPRING LAKE, NC 28390**

Target Site: 35.240729, -78.953625; Job Number: 2012-228



1 inch equals 750 feet



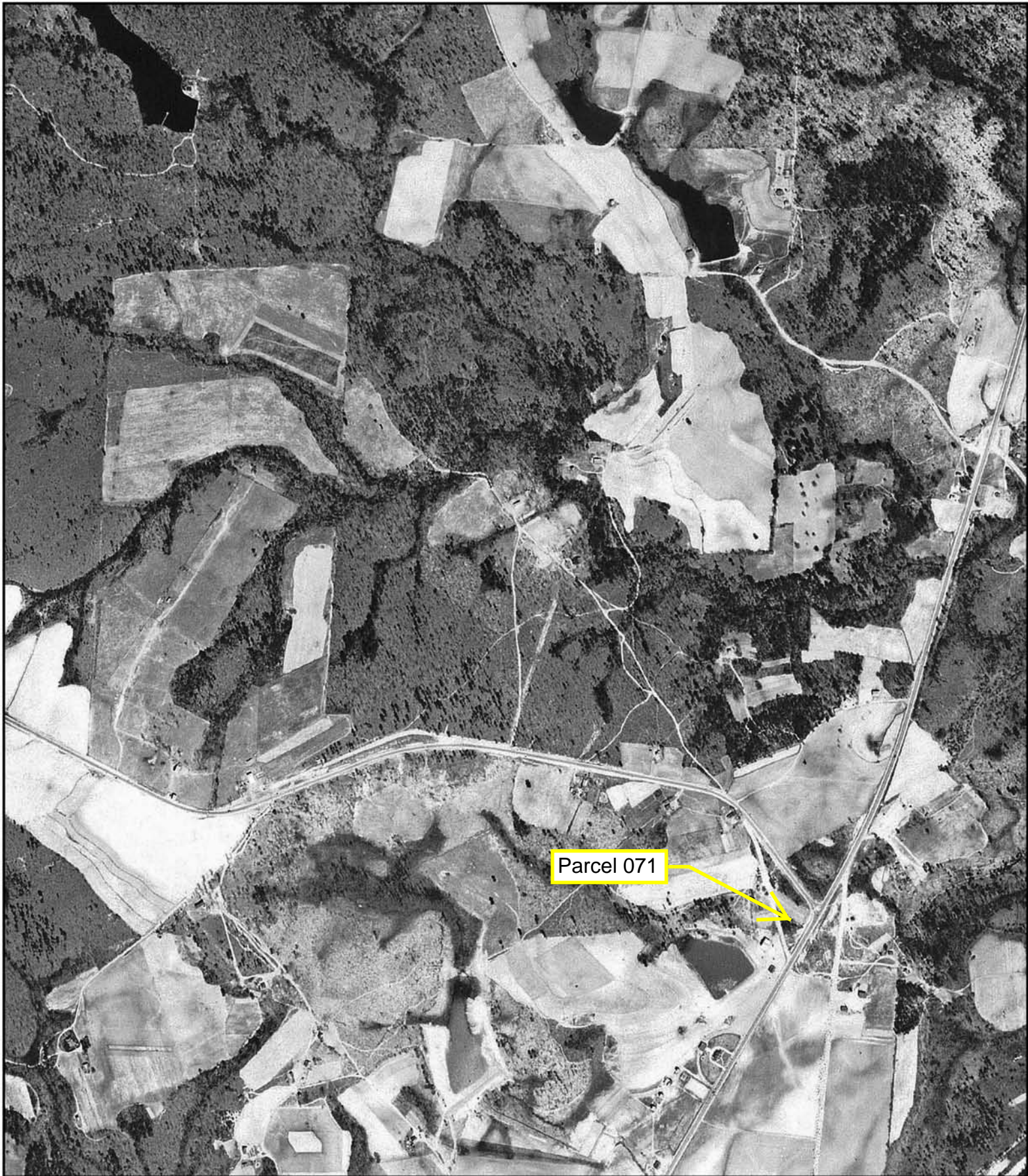
Historical Aerial Photo
1964 - SECTION 3

**SR 1121 FROM NC 210 TO SR 1120
SPRING LAKE, NC 28390**

Target Site: 35.240729, -78.953625; Job Number: 2012-228



1 inch equals 750 feet



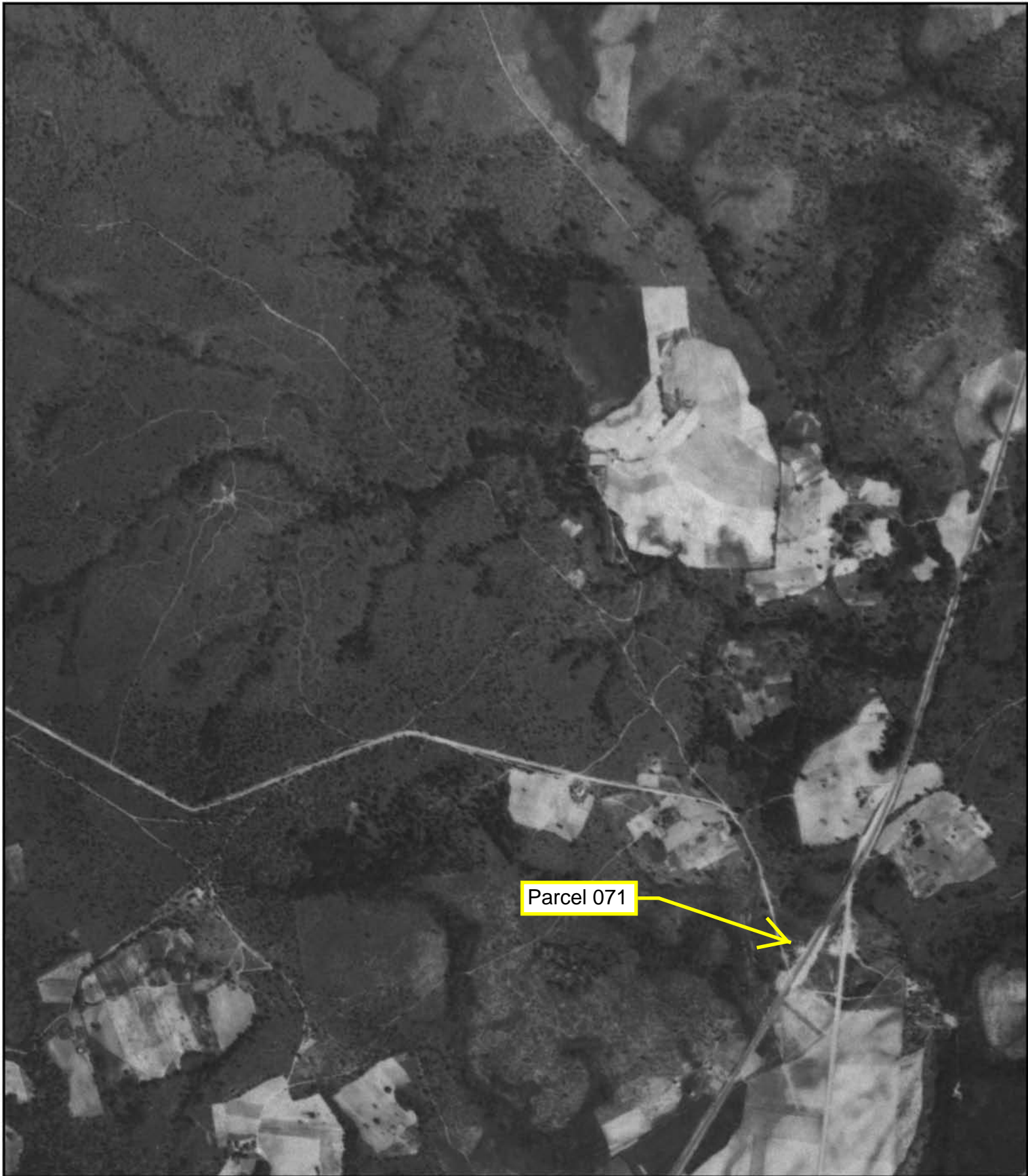
Historical Aerial Photo
1955 - SECTION 3

**SR 1121 FROM NC 210 TO SR 1120
SPRING LAKE, NC 28390**

Target Site: 35.240729, -78.953625; Job Number: 2012-228



1 inch equals 750 feet



Historical Aerial Photo
1938 - SECTION 3

**SR 1121 FROM NC 210 TO SR 1120
SPRING LAKE, NC 28390**

Target Site: 35.240729, -78.953625; Job Number: 2012-228

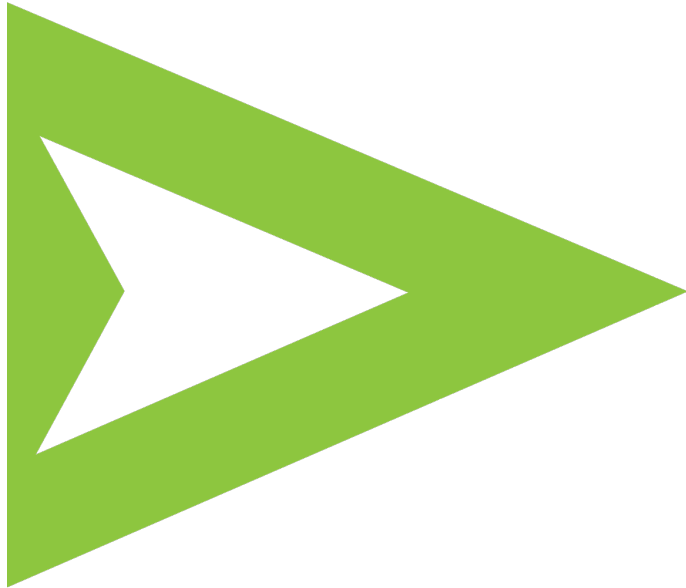


1 inch equals 750 feet

APPENDIX B



ENVIRONMENTAL FIRSTSEARCH REPORT



TARGET PROPERTY:

NCDOT PROJECT U-3465

SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

JOB NUMBER: 2012-228

PREPARED FOR:

Pyramid Environmental & Engineering, PC

503 Industrial Ave.

Greensboro, NC 27406

September 6, 2012

Environmental FirstSearch Search Summary Report

Target Site: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	07-09-12	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	07-09-12	0.50	0	0	0	0	-	0	0
CERCLIS	Y	08-01-12	0.50	0	0	0	0	-	0	0
NFRAP	Y	08-01-12	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	07-10-12	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	07-10-12	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	07-10-12	0.25	0	0	0	-	-	0	0
Federal Brownfield	Y	07-15-12	0.25	0	0	0	-	-	0	0
ERNS	Y	07-05-12	0.12	0	0	-	-	-	1	1
Tribal Lands	Y	12-15-08	1.00	0	0	0	0	0	1	1
State/Tribal Sites	Y	06-08-12	1.00	0	0	0	0	0	0	0
State Spills 90	Y	06-01-12	0.12	3	0	-	-	-	0	3
State/Tribal SWL	Y	05-26-11	0.50	0	0	0	0	-	0	0
State/Tribal LUST	Y	06-01-12	0.50	2	1	0	2	-	2	7
State/Tribal UST/AST	Y	06-01-12	0.25	5	0	0	-	-	1	6
State/Tribal EC	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal IC	Y	06-08-12	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	07-30-07	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	08-10-12	0.50	0	0	0	0	-	0	0
Federal IC/EC	Y	06-13-12	0.50	0	0	0	0	-	0	0
-TOTALS-				10	1	0	2	0	5	18

Notice of Disclaimer

Due to the limitations, constraints, and inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

Environmental FirstSearch Site Information Report

Request Date: 09-06-12
 Requestor Name: Brett Higgins
 Standard: ASTM-05

Search Type: LINEAR
 3.499 mile(s)
 Job Number: 2012-228
Filtered Report

Target Site: SR 1121 - NC 210 - SR 1120
 SPRING LAKE, NC 28390

Demographics

Sites: 18	Non-Geocoded: 5	Population: NA
Radon: 0 PCI/L		
Fire Insurance Map Coverage:	No (>350 Ft. From Coverage)	

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-78.953625	-78:57:13	Easting:	686206.771
Latitude:	35.240729	35:14:27	Northing:	3901460.421
Elevation:	213		Zone:	17

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes:	Services:																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">ZIP Code</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">ST</th> <th style="text-align: left;">Dist/Dir</th> <th style="text-align: left;">Sel</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="height: 150px;"> </td> </tr> </tbody> </table>	ZIP Code	City Name	ST	Dist/Dir	Sel						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Requested?</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td>Fire Insurance Maps</td> <td style="text-align: center;">No</td> <td></td> </tr> <tr> <td>Aerial Photographs</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">09-06-12</td> </tr> <tr> <td>Historical Topos</td> <td style="text-align: center;">No</td> <td></td> </tr> <tr> <td>City Directories</td> <td style="text-align: center;">No</td> <td></td> </tr> <tr> <td>Title Search</td> <td style="text-align: center;">No</td> <td></td> </tr> <tr> <td>Municipal Reports</td> <td style="text-align: center;">No</td> <td></td> </tr> <tr> <td>Liens</td> <td style="text-align: center;">No</td> <td></td> </tr> <tr> <td>Historic Map Works</td> <td style="text-align: center;">No</td> <td></td> </tr> <tr> <td>Online Topos</td> <td style="text-align: center;">No</td> <td></td> </tr> </tbody> </table>		Requested?	Date	Fire Insurance Maps	No		Aerial Photographs	Yes	09-06-12	Historical Topos	No		City Directories	No		Title Search	No		Municipal Reports	No		Liens	No		Historic Map Works	No		Online Topos	No	
ZIP Code	City Name	ST	Dist/Dir	Sel																																					
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Municipal Reports	No																																								
Liens	No																																								
Historic Map Works	No																																								
Online Topos	No																																								

Environmental FirstSearch

Target Site Summary Report

Target Property: SR 1121 - NC 210 - SR 1120
 SPRING LAKE, NC 28390

JOB: 2012-228

TOTAL: 18 **GEOCODED:** 13 **NON GEOCODED:** 5 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	SPILLS	RYAN S GROCERY 12015/CURRENT RECORD	7939 RAY RD SPRING LAKE NC 28390	0.00 --	+ 106	1
1	UST	RYAN S GROCERY 0-026491/TEMPORARILY CLOSED	7939 RAY RD SPRINGLAKE NC 28390	0.00 --	+ 106	2
1	UST	RYAN S GROCERY FA-675/UNKNOWN	7939 RAY RD SPRING LAKE NC 28390	0.00 --	+ 106	5
1	LUST	RYAN S GROCERY NCI-012015/RESPONSE	7939 RAY RD SPRING LAKE NC 28390	0.00 --	+ 106	7
2	SPILLS	DALTON HOLDER STORE 17793/CURRENT RECORD	6701 RAY RD SPRING LAKE NC 28390	0.00 --	+ 81	8
2	UST	DATON HOLDER 0-017886/PERM CLOSED REMOVED	6701 RAY RD SPRING LAKE NC 28390	0.00 --	+ 81	9
2	LUST	DALTON HOLDER STORE NCI-017793/RESPONSE	6701 RAY RD SPRING LAKE NC 28390	0.00 --	+ 81	12
3	SPILLS	HOLDERS GROCERY 85611/CURRENT RECORD	UNKNOWN SPRING LAKE NC 28390	0.00 --	+ 13	13
4	UST	MATTHEWS GENERAL STORE 0-002736/CURRENTLY OPERATIONAL	7100 RAY RD SPRING LAKE NC 28390	0.00 --	+ 64	14
5	UST	SHORT STOP FOOD MARTS 8 0-021508/CURRENTLY OPERATIONAL	7925 RAY RD SPRING LAKE NC 28390	0.00 --	+ 105	17

Environmental FirstSearch Sites Summary Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

TOTAL: 18 **GEOCODED:** 13 **NON GEOCODED:** 5 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	SPILLS	RYAN S GROCERY 12015/CURRENT RECORD	7939 RAY RD SPRING LAKE NC 28390	0.00 --	+ 106	1
1	UST	RYAN S GROCERY 0-026491/TEMPORARILY CLOSED	7939 RAY RD SPRINGLAKE NC 28390	0.00 --	+ 106	2
1	UST	RYAN S GROCERY FA-675/UNKNOWN	7939 RAY RD SPRING LAKE NC 28390	0.00 --	+ 106	5
1	LUST	RYAN S GROCERY NCI-012015/RESPONSE	7939 RAY RD SPRING LAKE NC 28390	0.00 --	+ 106	7
2	SPILLS	DALTON HOLDER STORE 17793/CURRENT RECORD	6701 RAY RD SPRING LAKE NC 28390	0.00 --	+ 81	8
2	UST	DATON HOLDER 0-017886/PERM CLOSED REMOVED	6701 RAY RD SPRING LAKE NC 28390	0.00 --	+ 81	9
2	LUST	DALTON HOLDER STORE NCI-017793/RESPONSE	6701 RAY RD SPRING LAKE NC 28390	0.00 --	+ 81	12
3	SPILLS	HOLDERS GROCERY 85611/CURRENT RECORD	UNKNOWN SPRING LAKE NC 28390	0.00 --	+ 13	13
4	UST	MATTHEWS GENERAL STORE 0-002736/CURRENTLY OPERATIONAL	7100 RAY RD SPRING LAKE NC 28390	0.00 --	+ 64	14
5	UST	SHORT STOP FOOD MARTS 8 0-021508/CURRENTLY OPERATIONAL	7925 RAY RD SPRING LAKE NC 28390	0.00 --	+ 105	17
6	LUST	HOLDERS GROCERY NCI-085611/ASSESSMENT	1899 RAY RD SPRING LAKE NC	0.11 SW	+ 53	20
7	LUST	LEWIS OIL CO. NCI-005466/	0 HIGHWAY 210 MANCHESTER NC	0.27 SE	+ 4	21
8	LUST	LEWIS OIL GROCERY STORE NCI-014732/RESPONSE	0 NC 210 & SR 1600 SPRING LAKE NC 28390	0.38 SE	- 53	22

Environmental FirstSearch Sites Summary Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

TOTAL: 18 **GEOCODED:** 13 **NON GEOCODED:** 5 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	ERNS	BETWEEN THE TOWNS SPRING LAKE NRC-554942/FIXED	AND SANFORD ON HWY SPRING LAKE NC	NON GC	N/A	N/A
	UST	STEWARTS OF SPRING LAKE 0-036564/PERM CLOSED REMOVED	SR 2045 AND SR 2048 SPRING LAKE NC	NON GC	N/A	N/A
	LUST	DEVON S GROCERY NCI-015437/RESPONSE	ROUTE 1, BOX 425, SR2048 SPRING LAKE NC 28390	NON GC	N/A	N/A
	LUST	LONG VALLEY FARM NCI-012016/CLOSED OUT	MANCHESTER ROAD SPRING LAKE NC 28390	NON GC	N/A	N/A
	TRIBALLA	BUREAU OF INDIAN AFFAIRS CONTACT I BIA-28390/	UNKNOWN NC 28390	NON GC	N/A	N/A

**Environmental FirstSearch
Site Detail Report**

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

SPILLS

SEARCH ID: 18 **DIST/DIR:** 0.00 -- **ELEVATION:** 319 **MAP ID:** 1

NAME:	RYAN S GROCERY	REV:	9/23/11
ADDRESS:	7939 RAY RD	ID1:	12015
	SPRING LAKE NC 28390	ID2:	FA-675
	HARNETT	STATUS:	CURRENT RECORD
CONTACT:		PHONE:	
SOURCE:	NCDENR		

SITE INFORMATION

OWNER/OPERATOR: CHRISTINE RYAN

RT. 3, BOX 599-A
SPRING LAKE NC 28390

DATE OF RELEASE: 12/21/1993
DATE SUBMITTED: 4/11/1994
DESCRIPTION OF INCIDENT: A LEAK WAS DISCOVERED WHEN USTS WERE RMEOVED

CONTAMINATION INFORMATION
GROUNDWATER CONTAMINATED?: Y
MAJOR SOIL CONTAMINATION?: N

MATERIAL INVOLVED (1): GASOLINE
AMOUNT LOST (1):
AMOUNT RECOVERED (1):

MATERIAL INVOLVED (2):
AMOUNT LOST (2):
AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3):
AMOUNT LOST (3):
AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0
NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION:
RISK SITE?: H
SITE PRIORITY: 085B
PRIORITY CODE: H
PRIORITY UPDATE: 4/15/1998

STATUS INFORMATION:
LAST MODIFIED:
INCIDENT PHASE: RESPONSE
NOV ISSUED:
NORR ISSUED:
45 DAY REPORT:
CORRECTIVE ACTION PLAN:
CLOSURE REQ DATE:
CLOSE-OUT REPORT:

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 4 DIST/DIR: 0.00 -- ELEVATION: 319 MAP ID: 1

NAME: RYAN S GROCERY REV: 6/1/12
ADDRESS: 7939 RAY RD ID1: 0-026491
SPRINGLAKE NC 28390 HARNETT ID2: 00-0-0000026491
CONTACT: CHRISTINE RYAN STATUS: TEMPORARILY CLOSED
SOURCE: NCDENR PHONE:

SITE INFORMATION

TOTAL NUMBER OF TANKS: 5

CONTACT INFORMATION: CHRISTINE RYAN
7939 RAY ROAD
SPRINGLAKE NC 28390

TANK NUMBER: 1
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 2
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 3
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 1000
TANK CONSTRUCTION:3

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 4 DIST/DIR: 0.00 -- ELEVATION: 319 MAP ID: 1

NAME: RYAN S GROCERY
ADDRESS: 7939 RAY RD
SPRINGLAKE NC 28390
HARNETT
CONTACT: CHRISTINE RYAN
SOURCE: NCDENR

REV: 6/1/12
ID1: 0-026491
ID2: 00-0-0000026491
STATUS: TEMPORARILY CLOSED
PHONE:

PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:NO
REGULATED TANK:YES

TANK NUMBER: 4
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 1000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:NO
REGULATED TANK:YES

TANK NUMBER: 5
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 500
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:NO
REGULATED TANK:YES

ARCHIVED INFORMATION AS OF 2011

TANK NUMBER: 1
INSTALLATION DATE: 19841231
CLOSED DATE: 19931221
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 4 DIST/DIR: 0.00 -- ELEVATION: 319 MAP ID: 1

NAME: RYAN S GROCERY REV: 6/1/12
ADDRESS: 7939 RAY RD ID1: 0-026491
SPRINGLAKE NC 28390 ID2: 00-0-0000026491
HARNETT STATUS: TEMPORARILY CLOSED
CONTACT: CHRISTINE RYAN PHONE:
SOURCE: NCDENR

INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: STEEL
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED:N
PERSON CONFIRMING:

TANK NUMBER: 2
INSTALLATION DATE: 19841231
CLOSED DATE: 19931221
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: STEEL
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED:N
PERSON CONFIRMING:

TANK NUMBER: 3
INSTALLATION DATE: 19701231
CLOSED DATE: 19931221
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 1000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: STEEL

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 5 DIST/DIR: 0.00 -- ELEVATION: 319 MAP ID: 1

NAME: RYAN S GROCERY REV: 6/1/12
ADDRESS: 7939 RAY RD ID1: FA-675
SPRING LAKE NC 28390 ID2:
HARNETT STATUS: UNKNOWN
CONTACT: CHRISTINE RYAN PHONE:
SOURCE: NCDENR

SITE INFORMATION

REGIONAL UST DATA

UST NUMBER:FA-675
INCIDENT NUMBER:12015
CD NUMBER:0
REEL NUMBER:0
REGIONAL CONTACT:JWB
REGIONAL OFFICE:FAY
DATE OCCURRED:12/21/1993

RESPONSIBLE COMPANY:

790 JOHN RYAN LANE
SPRING LAKE , NC , 28390

SOURCE:LEAK, UST
PETROLEUM TYPE:PETROLEUM
COMMERCIAL/NONCOMMERCIAL:COMMERCIAL
REGULATED:REGULATED
REGULATORY REQUIREMENT:9/28/2001
VIOLATION:

PHASE REQUIRED:
SITE PRIORITY:085B
RISK:H
RISK OF INCIDENT:L
INTERMEDIATE CONDITION:
LAND USE:

CORRECTIVE ACTION PLAN:
RBCA:
CLOSED REVIEW REQUESTED:
CASE CLOSED:
CONTAMINATION:GROUNDWATER/BOTH
SUPPLY WELLS:
MTBE IN WELL:
MTBE IN GROUNDWATER:UNKNOWN

LEAK DISCOVERED:0
LAND USE RESTRICTION FILED:
CLEAN UP:12/21/1993
CURRENT STATUS:CURRENT RECORD

RBCA GROUNDWATER:
POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE
CD NUMBER:0
RESPONSIBLE OWNER:0

- Continued on next page -

Environmental FirstSearch Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 5 **DIST/DIR:** 0.00 -- **ELEVATION:** 319 **MAP ID:** 1

NAME: RYAN S GROCERY
ADDRESS: 7939 RAY RD
SPRING LAKE NC 28390
HARNETT
CONTACT: CHRISTINE RYAN
SOURCE: NCDENR

REV: 6/1/12
ID1: FA-675
ID2:
STATUS: UNKNOWN
PHONE:

RESPONSIBLE OPERATOR:0
RESPONSIBLE LANDOWNER:0
COMMENTS:

Environmental FirstSearch Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

LUST

SEARCH ID: 9 **DIST/DIR:** 0.00 -- **ELEVATION:** 319 **MAP ID:** 1

NAME: RYAN S GROCERY **REV:** 6/1/12
ADDRESS: 7939 RAY RD **ID1:** NCI-012015
SPRING LAKE NC 28390 **ID2:** 12015
HARNETT **STATUS:** RESPONSE
CONTACT: CHRISTINE RYAN **PHONE:**
SOURCE: NCDENR

REGIONAL UST DATA

UST NUMBER:FA-675
INCIDENT NUMBER:12015
CD NUMBER:0
REEL NUMBER:0
REGIONAL CONTACT:JWB
REGIONAL OFFICE:FAY
DATE OCCURRED:12/21/1993

RESPONSIBLE COMPANY:

790 JOHN RYAN LANE
SPRING LAKE ,NC , 28390

SOURCE:LEAK, UST
PETROLEUM TYPE:PETROLEUM
COMMERCIAL/NONCOMMERCIAL:COMMERCIAL
REGULATED:REGULATED
REGULATORY REQUIREMENT:9/28/2001
VIOLATION:

PHASE REQUIRED:
SITE PRIORITY:085B
RISK:H
RISK OF INCIDENT:L
INTERMEDIATE CONDITION:
LAND USE:

CORRECTIVE ACTION PLAN:
RBCA:
CLOSED REVIEW REQUESTED:
CASE CLOSED:
CONTAMINATION:GROUNDWATER/BOTH
SUPPLY WELLS:
MTBE IN WELL:
MTBE IN GROUNDWATER:UNKNOWN

LEAK DISCOVERED:0
LAND USE RESTRICTION FILED:
CLEAN UP:12/21/1993
CURRENT STATUS:CURRENT RECORD

RBCA GROUNDWATER:
POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE
CD NUMBER:0
RESPONSIBLE OWNER:0
RESPONSIBLE OPERATOR:0
RESPONSIBLE LANDOWNER:0

Environmental FirstSearch

Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

SPILLS

SEARCH ID: 1 **DIST/DIR:** 0.00 -- **ELEVATION:** 294 **MAP ID:** 2

NAME: DALTON HOLDER STORE
ADDRESS: 6701 RAY RD
SPRING LAKE NC 28390
HARNETT

REV: 9/23/11
ID1: 17793
ID2: FA-934
STATUS: CURRENT RECORD
PHONE:

CONTACT:
SOURCE: NCDENR

SITE INFORMATION

OWNER/OPERATOR: GORDON MASON

6701 RAY ROAD
SPRING LAKE NC 28390

DATE OF RELEASE: 8/28/1997

DATE SUBMITTED: 9/16/1997

DESCRIPTION OF INCIDENT: RECEIVED CLOSURE REPORT; SOIL ANALYTICAL RESULTS SHOWED TPH>10PPM FOR ALL SAMPLES COLLECTED AROUND TANKS; GROUNDWATER WAS NOT ENCOUNTERED DURING TK REMOVAL

CONTAMINATION INFORMATION

GROUNDWATER CONTAMINATED?: Y
MAJOR SOIL CONTAMINATION?: N

MATERIAL INVOLVED (1): GASOLINE
AMOUNT LOST (1):
AMOUNT RECOVERED (1): UNKNOWN

MATERIAL INVOLVED (2):
AMOUNT LOST (2):
AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3):
AMOUNT LOST (3):
AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0
NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION:

RISK SITE?: U
SITE PRIORITY: 10E
PRIORITY CODE: E
PRIORITY UPDATE:

STATUS INFORMATION:

LAST MODIFIED:
INCIDENT PHASE: RESPONSE
NOV ISSUED:
NORR ISSUED:
45 DAY REPORT:
CORRECTIVE ACTION PLAN:
CLOSURE REQ DATE:
CLOSE-OUT REPORT:

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 7 DIST/DIR: 0.00 -- ELEVATION: 294 MAP ID: 2

NAME:	DATON HOLDER	REV:	6/1/12
ADDRESS:	6701 RAY RD SPRING LAKE NC 28390 HARNETT	ID1:	0-017886
CONTACT:	GORDON A MASON	ID2:	00-0-0000017886
SOURCE:	NCDENR	STATUS:	PERM CLOSED REMOVED
		PHONE:	

SITE INFORMATION

TOTAL NUMBER OF TANKS: 3

CONTACT INFORMATION: GORDON A MASON
6701 B RAY RD
SPRING LAKE NC 28390

TANK NUMBER: 1
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 3000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 2
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 3000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 3
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 3000
TANK CONSTRUCTION:3

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 7 **DIST/DIR:** 0.00 -- **ELEVATION:** 294 **MAP ID:** 2

NAME:	DATON HOLDER	REV:	6/1/12
ADDRESS:	6701 RAY RD SPRING LAKE NC 28390 HARNETT	ID1:	0-017886
CONTACT:	GORDON A MASON	ID2:	00-0-0000017886
SOURCE:	NCDENR	STATUS:	PERM CLOSED REMOVED
		PHONE:	

PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

REGIONAL UST DATA

UST NUMBER:FA-934
INCIDENT NUMBER:17793
CD NUMBER:0
REEL NUMBER:0
REGIONAL CONTACT:JWB
REGIONAL OFFICE:FAY
DATE OCCURRED:8/28/1997

RESPONSIBLE COMPANY:

6701 RAY ROAD
SPRING LAKE , NC , 28390

SOURCE:LEAK, UST
PETROLEUM TYPE:PETROLEUM
COMMERCIAL/NONCOMMERCIAL:COMMERCIAL
REGULATED:REGULATED
REGULATORY REQUIREMENT:
VIOLATION:

PHASE REQUIRED:
SITE PRIORITY:
RISK:L
RISK OF INCIDENT:L
INTERMEDIATE CONDITION:
LAND USE:RES

CORRECTIVE ACTION PLAN:
RBCA:
CLOSED REVIEW REQUESTED:
CASE CLOSED:
CONTAMINATION:GROUNDWATER/BOTH
SUPPLY WELLS:0
MTBE IN WELL:0
MTBE IN GROUNDWATER:UNKNOWN

LEAK DISCOVERED:0
LAND USE RESTRICTION FILED:
CLEAN UP:8/27/1997
CURRENT STATUS:CURRENT RECORD

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 7 DIST/DIR: 0.00 -- ELEVATION: 294 MAP ID: 2

NAME:	DATON HOLDER	REV:	6/1/12
ADDRESS:	6701 RAY RD	ID1:	0-017886
	SPRING LAKE NC 28390	ID2:	00-0-0000017886
	HARNETT	STATUS:	PERM CLOSED REMOVED
CONTACT:	GORDON A MASON	PHONE:	
SOURCE:	NCDENR		

RBCA GROUNDWATER:
POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE
CD NUMBER:0
RESPONSIBLE OWNER:0
RESPONSIBLE OPERATOR:0
RESPONSIBLE LANDOWNER:0
COMMENTS:

ARCHIVED INFORMATION AS OF 2011

TANK NUMBER: 1
INSTALLATION DATE: 19740420
CLOSED DATE: 19970728
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 3000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: NONE
EXTERIOR: PAINT
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: STEEL
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED:N
PERSON CONFIRMING:

TANK NUMBER: 2
INSTALLATION DATE: 19740420
CLOSED DATE: 19970728
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 3000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: NONE
EXTERIOR: PAINT
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: STEEL
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

LUST

SEARCH ID: 8 DIST/DIR: 0.00 -- ELEVATION: 294 MAP ID: 2

NAME: DALTON HOLDER STORE REV: 6/1/12
ADDRESS: 6701 RAY RD ID1: NCI-017793
SPRING LAKE NC 28390 ID2: 17793
HARNETT STATUS: RESPONSE
CONTACT: GORDON MASON PHONE: 9104978229
SOURCE: NCDENR

REGIONAL UST DATA

UST NUMBER:FA-934
INCIDENT NUMBER:17793
CD NUMBER:0
REEL NUMBER:0
REGIONAL CONTACT:JWB
REGIONAL OFFICE:FAY
DATE OCCURRED:8/28/1997

RESPONSIBLE COMPANY:

6701 RAY ROAD
SPRING LAKE ,NC , 28390

SOURCE:LEAK, UST
PETROLEUM TYPE:PETROLEUM
COMMERCIAL/NONCOMMERCIAL:COMMERCIAL
REGULATED:REGULATED
REGULATORY REQUIREMENT:
VIOLATION:

PHASE REQUIRED:
SITE PRIORITY:
RISK:L
RISK OF INCIDENT:L
INTERMEDIATE CONDITION:
LAND USE:RES

CORRECTIVE ACTION PLAN:
RBCA:
CLOSED REVIEW REQUESTED:
CASE CLOSED:
CONTAMINATION:GROUNDWATER/BOTH
SUPPLY WELLS:0
MTBE IN WELL:0
MTBE IN GROUNDWATER:UNKNOWN

LEAK DISCOVERED:0
LAND USE RESTRICTION FILED:
CLEAN UP:8/27/1997
CURRENT STATUS:CURRENT RECORD

RBCA GROUNDWATER:
POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE
CD NUMBER:0
RESPONSIBLE OWNER:0
RESPONSIBLE OPERATOR:0
RESPONSIBLE LANDOWNER:0

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

SPILLS

SEARCH ID: 2 DIST/DIR: 0.00 -- ELEVATION: 226 MAP ID: 3

NAME: HOLDERS GROCERY REV: 6/1/12
ADDRESS: UNKNOWN ID1: 85611
 SPRING LAKE NC 28390 ID2: FA-85611
 HARNETT STATUS: CURRENT RECORD
CONTACT: PHONE:
SOURCE: NCDENR

SITE INFORMATION

OWNER/OPERATOR: HOPPER-PRESIDENT, RICK
H&H CABLE CONTRACTORS, INC.
1092 PONDEROSA ROAD
CAMERON 9194991130

DATE OF RELEASE: 6/4/2000
DATE SUBMITTED: 4/12/2001
DESCRIPTION OF INCIDENT:

CONTAMINATION INFORMATION
GROUNDWATER CONTAMINATED?: Y
MAJOR SOIL CONTAMINATION?:

MATERIAL INVOLVED (1):
AMOUNT LOST (1):
AMOUNT RECOVERED (1):

MATERIAL INVOLVED (2):
AMOUNT LOST (2):
AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3):
AMOUNT LOST (3):
AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0
NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION:
RISK SITE?:
SITE PRIORITY:
PRIORITY CODE: B
PRIORITY UPDATE:

STATUS INFORMATION:
LAST MODIFIED: 5/9/2002
INCIDENT PHASE: ASSESSMENT
NOV ISSUED:
NORR ISSUED:
45 DAY REPORT:
CORRECTIVE ACTION PLAN: 5/9/2002
CLOSURE REQ DATE:
CLOSE-OUT REPORT:

**Environmental FirstSearch
Site Detail Report**

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 3 **DIST/DIR:** 0.00 -- **ELEVATION:** 277 **MAP ID:** 4

NAME: MATTHEWS GENERAL STORE
ADDRESS: 7100 RAY RD
SPRING LAKE NC 28390
HARNETT
CONTACT: FOSTER . MATTHEWS
SOURCE: NCDENR

REV: 6/1/12
ID1: 0-002736
ID2: 00-0-0000002736
STATUS: CURRENTLY OPERATIONAL
PHONE:

SITE INFORMATION

TOTAL NUMBER OF TANKS: 3

CONTACT INFORMATION: FOSTER . MATTHEWS
1863 WILL LUCAS RD
LINDEN NC 28356-8523

TANK NUMBER: 001
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:1
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 002
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:1
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 003
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 3 **DIST/DIR:** 0.00 -- **ELEVATION:** 277 **MAP ID:** 4

NAME:	MATTHEWS GENERAL STORE	REV:	6/1/12
ADDRESS:	7100 RAY RD	ID1:	0-002736
	SPRING LAKE NC 28390	ID2:	00-0-0000002736
	HARNETT	STATUS:	CURRENTLY OPERATIONAL
CONTACT:	FOSTER . MATTHEWS	PHONE:	
SOURCE:	NCDENR		

PIPE CONSTRUCTION:1
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

ARCHIVED INFORMATION AS OF 2011

TANK NUMBER: 001
INSTALLATION DATE: 19940504
CLOSED DATE:
STATUS: CURRENTLY OPERATIONAL
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION: IMPRESSED CURRENT
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION: IMPRESSED CURRENT
PIPE LEAK DETECTION:
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED:Y
PERSON CONFIRMING:KCC

TANK NUMBER: 002
INSTALLATION DATE: 19940504
CLOSED DATE:
STATUS: CURRENTLY OPERATIONAL
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION: IMPRESSED CURRENT
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION: IMPRESSED CURRENT
PIPE LEAK DETECTION:
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 3 DIST/DIR: 0.00 -- ELEVATION: 277 MAP ID: 4

NAME: MATTHEWS GENERAL STORE
ADDRESS: 7100 RAY RD
SPRING LAKE NC 28390
HARNETT
CONTACT: FOSTER . MATTHEWS
SOURCE: NCDENR

REV: 6/1/12
ID1: 0-002736
ID2: 00-0-0000002736
STATUS: CURRENTLY OPERATIONAL
PHONE:

CERTIFICATION TYPE:
GPS SITING CONFIRMED:Y
PERSON CONFIRMING:KCC

TANK NUMBER: 003
INSTALLATION DATE: 19940504
CLOSED DATE:
STATUS: CURRENTLY OPERATIONAL
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION: IMPRESSED CURRENT
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION: IMPRESSED CURRENT
PIPE LEAK DETECTION:
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED:Y
PERSON CONFIRMING:KCC

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 6 DIST/DIR: 0.00 -- ELEVATION: 318 MAP ID: 5

NAME: SHORT STOP FOOD MARTS 8
ADDRESS: 7925 RAY RD
SPRING LAKE NC 28390
HARNETT
CONTACT: LI L THRIFT FOOD MARTS, INC.
SOURCE: NCDENR
REV: 6/1/12
ID1: 0-021508
ID2: 00-0-0000021508
STATUS: CURRENTLY OPERATIONAL
PHONE:

SITE INFORMATION

TOTAL NUMBER OF TANKS: 3

CONTACT INFORMATION: LI L THRIFT FOOD MARTS, INC.
1007 ARSENAL AVENUE
FAYETTEVILLE NC 28305-5329

TANK NUMBER: 1
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:3
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 2
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:3
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 3
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 4000
TANK CONSTRUCTION:3

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Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 6 DIST/DIR: 0.00 -- ELEVATION: 318 MAP ID: 5

NAME: SHORT STOP FOOD MARTS 8
ADDRESS: 7925 RAY RD
SPRING LAKE NC 28390
HARNETT
CONTACT: LI L THRIFT FOOD MARTS, INC.
SOURCE: NCDENR
REV: 6/1/12
ID1: 0-021508
ID2: 00-0-0000021508
STATUS: CURRENTLY OPERATIONAL
PHONE:

PIPE CONSTRUCTION:3
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

ARCHIVED INFORMATION AS OF 2011

TANK NUMBER: 1
INSTALLATION DATE: 19731003
CLOSED DATE:
STATUS: CURRENTLY OPERATIONAL
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: INTERNAL LINING
EXTERIOR: CATHODIC PROTECTION
CORROSION PROTECTION: INTERNAL LINING
LEAK DETECTION: PERIODIC TANK TIGHTNESS TESTING
PIPING MATERIAL: FRP
PIPE CORROSION PROTECTION: FRP TANK/PIPING
PIPE LEAK DETECTION: AUTOMATIC LINE LEAK DETECTORS
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED:Y
PERSON CONFIRMING:KCC

TANK NUMBER: 2
INSTALLATION DATE: 19731003
CLOSED DATE:
STATUS: CURRENTLY OPERATIONAL
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: INTERNAL LINING
EXTERIOR: CATHODIC PROTECTION
CORROSION PROTECTION: INTERNAL LINING
LEAK DETECTION: PERIODIC TANK TIGHTNESS TESTING
PIPING MATERIAL: FRP
PIPE CORROSION PROTECTION: FRP TANK/PIPING
PIPE LEAK DETECTION: AUTOMATIC LINE LEAK DETECTORS
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 6 DIST/DIR: 0.00 -- ELEVATION: 318 MAP ID: 5

NAME: SHORT STOP FOOD MARTS 8
ADDRESS: 7925 RAY RD
SPRING LAKE NC 28390
HARNETT
CONTACT: LI L THRIFT FOOD MARTS, INC.
SOURCE: NCDENR

REV: 6/1/12
ID1: 0-021508
ID2: 00-0-0000021508
STATUS: CURRENTLY OPERATIONAL
PHONE:

CERTIFICATION TYPE:
GPS SITING CONFIRMED:Y
PERSON CONFIRMING:KCC

TANK NUMBER: 3
INSTALLATION DATE: 19861001
CLOSED DATE:
STATUS: CURRENTLY OPERATIONAL
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 4000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: INTERNAL LINING
EXTERIOR: CATHODIC PROTECTION
CORROSION PROTECTION: INTERNAL LINING
LEAK DETECTION: PERIODIC TANK TIGHTNESS TESTING
PIPING MATERIAL: FRP
PIPE CORROSION PROTECTION: FRP TANK/PIPING
PIPE LEAK DETECTION: AUTOMATIC LINE LEAK DETECTORS
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED:Y
PERSON CONFIRMING:KCC

**Environmental FirstSearch
Site Detail Report**

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

LUST

SEARCH ID: 10 **DIST/DIR:** 0.11 SW **ELEVATION:** 266 **MAP ID:** 6

NAME:	HOLDERS GROCERY	REV:	10/1/01
ADDRESS:	1899 RAY RD	ID1:	NCI-085611
	SPRING LAKE NC	ID2:	
	HARNETT	STATUS:	ASSESSMENT
CONTACT:	RICK HOPPER-PRESIDENT	PHONE:	9194991130
SOURCE:			

OWNER/OPERATOR: RICK HOPPER-PRESIDENT
H&H CABLE CONTRACTORS, INC.
1092 PONDEROSA ROAD
CAMERON NORT 28326

DATE OF RELEASE: 6/4/2000
DATE SUBMITTED: 4/12/2001
DESCRIPTION OF INCIDENT:

CONTAMINATION INFORMATION
GROUNDWATER CONTAMINATED?: Y
MAJOR SOIL CONTAMINATION?:

MATERIAL INVOLVED (1):
AMOUNT LOST (1):
AMOUNT RECOVERED (1):

MATERIAL INVOLVED (2):
AMOUNT LOST (2):
AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3):
AMOUNT LOST (3):
AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0
NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION:
RISK SITE?:
SITE PRIORITY: 160
PRIORITY CODE: B
PRIORITY UPDATE:

STATUS INFORMATION:
LAST MODIFIED:
INCIDENT PHASE: ASSESSMENT
NOV ISSUED:
NORR ISSUED:
45 DAY REPORT:
CORRECTIVE ACTION PLAN: 5/9/2002
CLOSURE REQ DATE:
CLOSE-OUT REPORT:

Environmental FirstSearch
Site Detail Report

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

LUST

SEARCH ID: 11 DIST/DIR: 0.27 SE ELEVATION: 217 MAP ID: 7

NAME: LEWIS OIL CO.
ADDRESS: 0 HIGHWAY 210
MANCHESTER NC
HARNETT

REV: 10/1/01
ID1: NCI-005466
ID2:
STATUS:
PHONE:

CONTACT:
SOURCE:

OWNER/OPERATOR:

DATE OF RELEASE:
DATE SUBMITTED: 3/12/1990
DESCRIPTION OF INCIDENT:

CONTAMINATION INFORMATION
GROUNDWATER CONTAMINATED?: NOD
MAJOR SOIL CONTAMINATION?:

MATERIAL INVOLVED (1):
AMOUNT LOST (1):
AMOUNT RECOVERED (1):

MATERIAL INVOLVED (2):
AMOUNT LOST (2):
AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3):
AMOUNT LOST (3):
AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0
NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION:
RISK SITE?:
SITE PRIORITY: 0
PRIORITY CODE: E
PRIORITY UPDATE:

STATUS INFORMATION:
LAST MODIFIED:
INCIDENT PHASE:
NOV ISSUED:
NORR ISSUED:
45 DAY REPORT:
CORRECTIVE ACTION PLAN:
CLOSURE REQ DATE:
CLOSE-OUT REPORT:

**Environmental FirstSearch
Site Detail Report**

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

LUST

SEARCH ID: 12 **DIST/DIR:** 0.38 SE **ELEVATION:** 160 **MAP ID:** 8

NAME:	LEWIS OIL GROCERY STORE	REV:	6/1/12
ADDRESS:	0 NC 210 & SR 1600	ID1:	NCI-014732
	SPRING LAKE NC 28390	ID2:	14732
	CUMBERLAND	STATUS:	RESPONSE
CONTACT:	STEWART LEWIS	PHONE:	
SOURCE:	NCDENR		

REGIONAL UST DATA

UST NUMBER:FA-797
INCIDENT NUMBER:14732
CD NUMBER:0
REEL NUMBER:0
REGIONAL CONTACT:JWB
REGIONAL OFFICE:FAY
DATE OCCURRED:10/18/1995

RESPONSIBLE COMPANY:

STUART LEWIS OIL CO.
HWY 210 N.
SPRING LAKE ,NC , 28390

SOURCE:LEAK, UST
PETROLEUM TYPE:PETROLEUM
COMMERCIAL/NONCOMMERCIAL:COMMERCIAL
REGULATED:REGULATED
REGULATORY REQUIREMENT:
VIOLATION:

PHASE REQUIRED:
SITE PRIORITY:090B
RISK:H
RISK OF INCIDENT:L
INTERMEDIATE CONDITION:
LAND USE:

CORRECTIVE ACTION PLAN:
RBCA:
CLOSED REVIEW REQUESTED:
CASE CLOSED:
CONTAMINATION:GROUNDWATER/BOTH
SUPPLY WELLS:
MTBE IN WELL:
MTBE IN GROUNDWATER:UNKNOWN

LEAK DISCOVERED:0
LAND USE RESTRICTION FILED:
CLEAN UP:10/18/1995
CURRENT STATUS:CURRENT RECORD

RBCA GROUNDWATER:
POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE
CD NUMBER:0
RESPONSIBLE OWNER:0
RESPONSIBLE OPERATOR:0
RESPONSIBLE LANDOWNER:0

Environmental FirstSearch Descriptions

NPL: EPA NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money. A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment. FINAL - Currently on the Final NPL PROPOSED - Proposed for NPL

NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. DELISTED - Deleted from the Final NPL

CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. PART OF NPL- Site is part of NPL site DELETED - Deleted from the Final NPL FINAL - Currently on the Final NPL NOT PROPOSED - Not on the NPL NOT VALID - Not Valid Site or Incident PROPOSED - Proposed for NPL REMOVED - Removed from Proposed NPL SCAN PLAN - Pre-proposal Site WITHDRAWN - Withdrawn

NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site. NFRAP - No Further Remedial Action Plan P - Site is part of NPL site D - Deleted from the Final NPL F - Currently on the Final NPL N - Not on the NPL O - Not Valid Site or Incident P - Proposed for NPL R - Removed from Proposed NPL S - Pre-proposal Site W - Withdrawn

RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: EPA/MA DEP/CT DEP RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. Facilities that generate or transport hazardous waste or meet other RCRA requirements. LGN - Large Quantity Generators SGN - Small Quantity Generators VGN - Conditionally Exempt Generator. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities. CONNECTICUT HAZARDOUS WASTE MANIFEST - Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records. MASSACHUSETTES HAZARDOUS WASTE GENERATOR - database of generators that are regulated under the MA DEP. VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil. SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil. LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

Fed Brownfield: EPA BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs. CLEANUPS IN MY COMMUNITY (subset) - Sites, facilities and properties that have been contaminated by hazardous materials and are being, or have been, cleaned up under EPA's brownfield's program.

ERNS: EPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation. BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

State/Tribal Sites: NCDENR STATE INACTIVE HAZARDOUS SITES LIST - database of sites and Facilities that are being investigated due to reported releases of Hazardous substances. Included within this Inactive Hazardous Waste Sites Inventory database are the following classifications: Inactive Hazardous Waste Sites (IHS), No Further Action Sites (NFA), Duplicate Sites (DS), Inactive Hazardous Waste Sites Priority List Sites (SPL)

State Spills 90: NCDENR INCIDENT MANAGEMENT DATA (UST and Groundwater) - database of possible releases/spills of contaminants. The data includes media effected, material released, source and site priority.

State/Tribal SWL: NCDENR ALL PERMITTED SOLID WASTE FACILITIES - database of C&D Landfill, Compost, House Hold Hazardous Waste landfill, Incinerator (Industrial) Landfill, Incinerator (Medical) Landfill, Industrial Landfill, Land Clearing and Inert Debris Landfill, Mixed Waste Processing Landfill, Municipal Solid Waste Landfill, Tire Treatment and Processing Landfill, and Transfer and Processing Stations.

State/Tribal LUST: NCDENR INCIDENT MANAGEMENT DATA (UST and Groundwater) - database of leaking underground storage tanks. This database is a subset of the Incident Management Data (UST and Groundwater) where the source is a leaking ust. This data is concerned with petroleum storage systems and includes facilities and/or locations that have reported the possible release of contaminants. This database also includes State Spill Sites. REGIONAL UST DATABASE (SUBSET) - database of information obtained from the Regional Offices in which an incident has occurred. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database.

State/Tribal UST/AST: NCDENR/EPA REGISTERED TANKS and FACILITY DATABASE - database of underground storage tanks registered with the North Carolina Department of Environment and Natural Resources. Inclusion on this list indicates the presence of underground petroleum storage tanks and therefore the potential for environmental problems. It does not necessarily indicate existing problems. TRIBAL LAND UNDERGROUND STORAGE TANKS - database of underground storage tanks that are reported to be on Native American lands. REGIONAL UST DATABASE - database of information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database.

State/Tribal IC: NCDENR STATE INACTIVE HAZARDOUS SITES LIST SUBSET - database of sites and Facilities that have land use restrictions and are being investigated due to reported releases of Hazardous substances. Included within this Inactive Hazardous Waste Sites Inventory database are the following classifications: Inactive Hazardous Waste Sites (IHS), No Further Action Sites (NFA), Duplicate Sites (DS), Inactive Hazardous Waste Sites Priority List Sites (SPL)

State/Tribal VCP: NCDENR STATE INACTIVE HAZARDOUS SITES LIST SUBSET- database of sites and Facilities that are being investigated due to reported releases of Hazardous substances and have a voluntary cleanup agreement. Included within this Inactive Hazardous Waste Sites Inventory database are the following classifications: Inactive Hazardous Waste Sites (IHS), No Further Action Sites (NFA), Duplicate Sites (DS), Inactive Hazardous Waste Sites Priority List Sites (SPL)

State/Tribal Brownfields: NCDENR BROWNFIELD PROJECTS INVENTORY - database of Active Eligible Sites, Projects Pending Eligibility, and Finalized Brownfields Agreements.

Federal IC / EC: EPA FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated. RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES (RCRA) – RCRA site the have institutional controls.

Environmental FirstSearch Database Sources

NPL: EPA Environmental Protection Agency

Updated quarterly

NPL DELISTED: EPA Environmental Protection Agency

Updated quarterly

CERCLIS: EPA Environmental Protection Agency

Updated quarterly

NFRAP: EPA Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: EPA Environmental Protection Agency.

Updated quarterly

RCRA TSD: EPA Environmental Protection Agency.

Updated quarterly

RCRA GEN: EPA/MA DEP/CT DEP Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

Fed Brownfield: EPA Environmental Protection Agency

Updated quarterly

ERNS: EPA/NRC Environmental Protection Agency National Response Center.

Updated annually

Tribal Lands: DOI/BIA United States Department of the Interior Bureau of Indian Affairs

Updated annually

State/Tribal Sites: NCDENR North Carolina Department of Environment and Natural Resources, Division of Waste Management

Updated quarterly

State Spills 90: NCDENR North Carolina Department of Environment and Natural Resources, Division of Water Quality/Groundwater Section

Updated quarterly

State/Tribal SWL: NCDENR North Carolina Department of Environment and Natural Resources, Division of Waste Management

Updated annually

State/Tribal LUST: NCDENR North Carolina Department of Environment and Natural Resources, Division of Water Quality/Groundwater Section

Updated quarterly

State/Tribal UST/AST: NCDENR/EPA North Carolina Department of Environment and Natural Resources, Division of Waste Management
Environmental Protection Agency

Updated quarterly

State/Tribal IC: NCDENR North Carolina Department of Environment and Natural Resources, Division of Waste Management

Updated quarterly

State/Tribal VCP: NCDENR North Carolina Department of Environment and Natural Resources, Division of Waste Management

Updated quarterly

State/Tribal Brownfields: NCDENR North Carolina Department of Environment and Natural Resources

Updated quarterly

Federal IC / EC: EPA Environmental Protection Agency

Updated quarterly

Environmental FirstSearch

Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: SR 1121 - NC 210 - SR 1120
 SPRING LAKE, NC 28390

JOB: 2012-228

Street Name	Dist/Dir	Street Name	Dist/Dir
Alan Parker Cir	0.19 NE	Leeks Ln	0.25 SE
Andrew Cox Ln	0.00--	Leopard Ln	0.01 NW
Appaloosa Dr	0.25 SE	Little M Dr	0.00--
Aspen Ave	0.04 NW	Loblolly	0.19 NW
Astor Pl	0.05 NW	Lous Chapel Rd	0.00--
Austin Ave	0.24 SE	Lynx Ln	0.08 NW
Azalea Dr	0.00--	Mckay Dr	0.00--
Balsom Pl	0.09 NW	Mcneil Cemetery Rd	0.00--
Bluegill Ln	0.00--	Misty Cove Ln	0.00--
Burro Ln	0.03 SE	Narcissus Pl	0.03 NW
Burro Rd	0.03 SE	Narcissys	0.02 NW
Camellia Ln	0.00--	Nc Highway 210 S	0.00--
Canopy Ln	0.07 SW	Northpoint Cir	0.05 NE
Capital Dr	0.25 SE	Oakdale Dr	0.02 NW
Capitol Dr	0.22 SE	Old Farms Maple St	0.14 NW
Carnation Cir	0.25 NE	Orchid	0.13 NE
Cedar Dr	0.25 NE	Orchid Dr	0.13 NE
Chestnutt	0.21 NW	Pansey Cir	0.08 NE
Citron Pl	0.08 NW	Pansy Cir	0.08 NE
Clove Ln	0.09 NW	Panther Ln	0.05 NW
Connie Ct	0.14 NE	Peonie Pl	0.21 NW
Cooper Ave	0.00--	Pete Mason Dr	0.14 NW
Creeksville Church Rd	0.09 SE	Pinecrest Dr	0.06 NE
Daffodil Pl	0.09 NW	Primrose	0.21 NW
Daisy Cir	0.1 NE	Primrose St	0.14 NW
Dandelion Pl	0.13 NW	Pvt Rd	0.00--
Dogwood Dr	0.16 NW	Rachel Rd	0.03 SE
Dove Ridge Ln	0.18 NE	Ray Rd	0.00--
E Northpoint St	0.00--	Rolling Springs Dr	0.00--
Elm St	0.22 NW	Rosebud St	0.1 NE
Elma Black Ln	0.09 NW	Ruby Clara Ln	0.00--
Erica Ln	0.18 SE	S and S Ln	0.00--
Eugene Ln	0.03 NE	Sandclay Rd	0.00--
FROM NC 210 TO SR 1120	0.00--	Secondary Road 1121	0.00--
Gardenia Cir	0.16 NE	Secondary Road 1122	0.00--
Gena Ln	0.17 NW	Secondary Road 1123	0.09 SE
Gerber Ln	0.00--	Secondary Road 1142 Rd	0.00--
Gordon Ln	0.01 NW	Secondary Road 1151	0.22 SE
Helen Matthews Dr	0.00--	Secondary Road 1160	0.00--
Holly St	0.18 NW	Secondary Road 1161	0.1 NE
Honey Dr	0.14 NW	Secondary Road 1162	0.00--
Jde St	0.00--	Secondary Road 1163	0.08 NE
Jeff St	0.13 NE	Secondary Road 1165	0.25 NE
John Ryan Ln	0.00--	Secondary Road 1166	0.25 NE
Killdeer Dr	0.16 NW	Secondary Road 2051	0.03 SE
Killdeer Ln	0.00--	Shady Dr	0.04 NE
Lake Ave	0.00--	Slate Dr	0.15 NW
Lakeview Dr	0.22 SE	Sring Valley Dr	0.15 NW

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: SR 1121 - NC 210 - SR 1120
SPRING LAKE, NC 28390

JOB: 2012-228

Street Name	Dist/Dir	Street Name	Dist/Dir
Stallion Ln	0.00--		
State Hwy 210	0.00--		
Stone Cross Dr	0.07 NE		
Sweet Ln	0.11 NW		
Tommy Dr	0.00--		
Tommys Dr	0.00--		
Twin Lake Rd	0.00--		
W Northpoint Rd	0.00--		
Ward Ln	0.15 NE		
Wedgewood Dr	0.01 NE		
White Pine Pl	0.02 NW		
Woodbridge Dr	0.25 NE		
Zena Ln	0.1 NW		



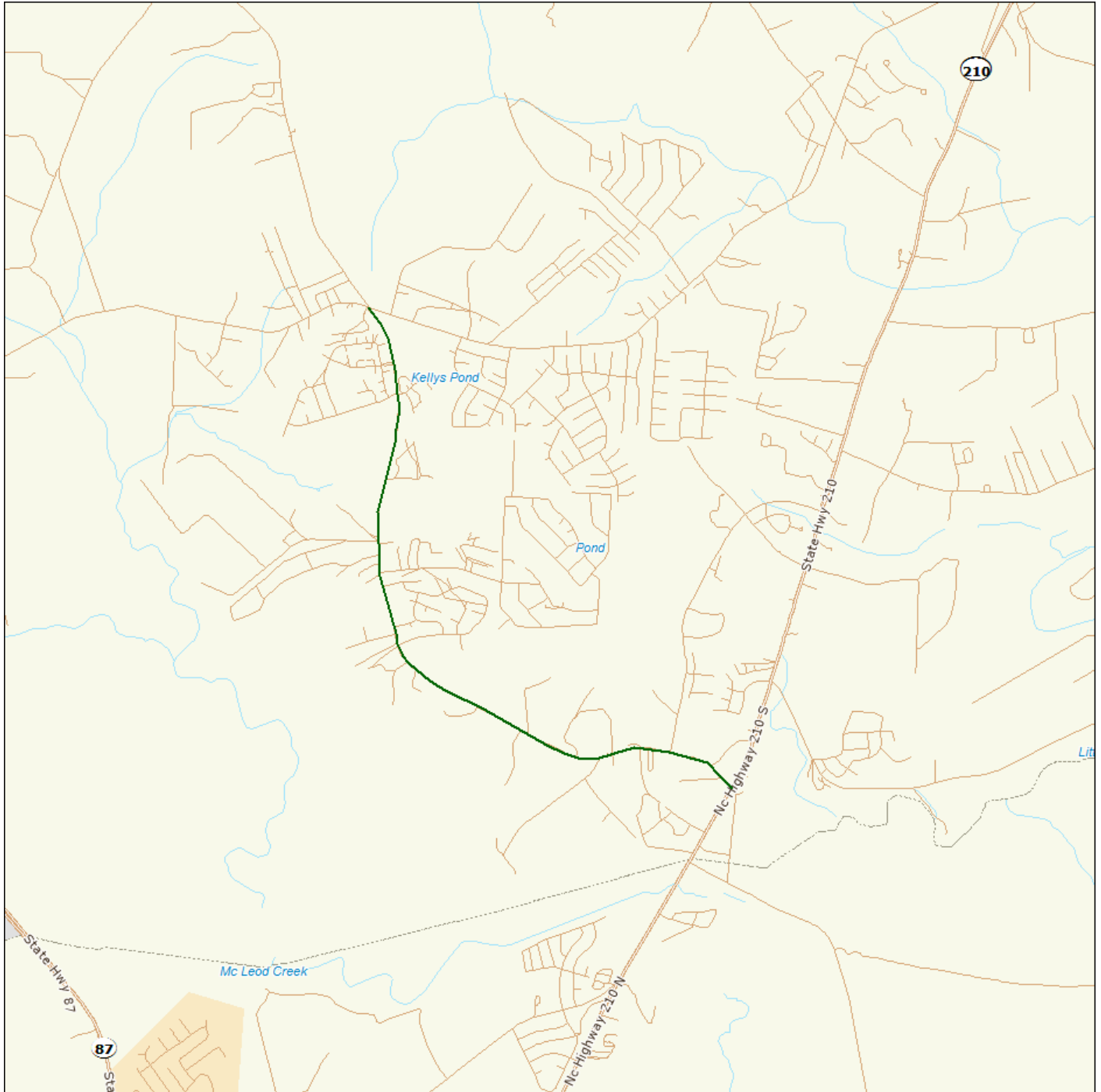
Environmental FirstSearch

1 Mile Radius from Line

ASTM Map: NPL, RCACOR, STATE Sites



SR 1121 - NC 210 - SR 1120 , SPRING LAKE, NC 28390



Source: Tele Atlas

- Linear Search Line 
- Identified Site, Multiple Sites, Receptor   
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste 
- Triballand 
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



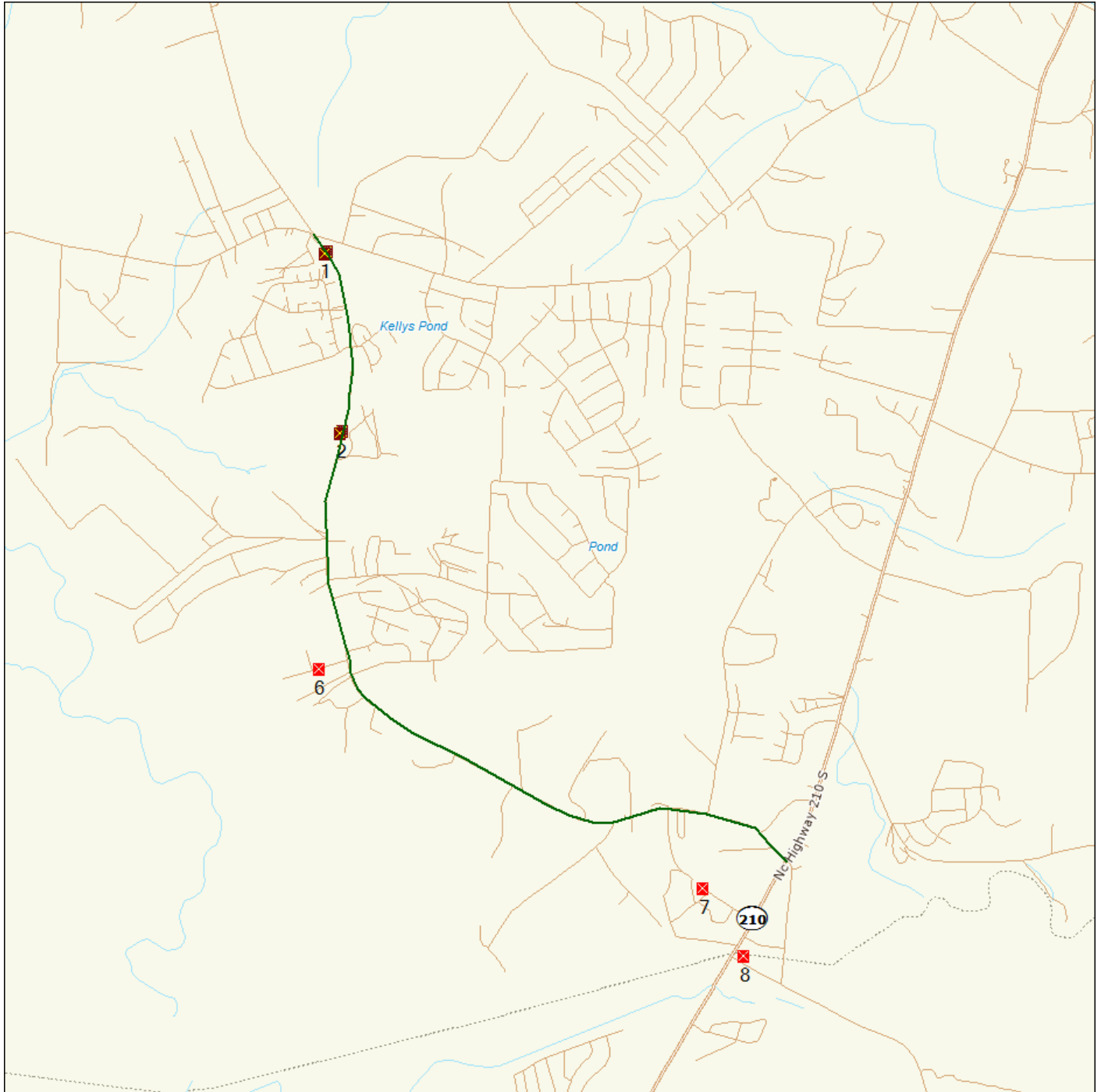
Environmental FirstSearch

.5 Mile Radius from Line

ASTM Map: CERCLIS, RCRATSD, LUST, SWL



SR 1121 - NC 210 - SR 1120 , SPRING LAKE, NC 28390



Source: Tele Atlas

- Linear Search Line 
- Identified Site, Multiple Sites, Receptor   
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste 
- Triballand 
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



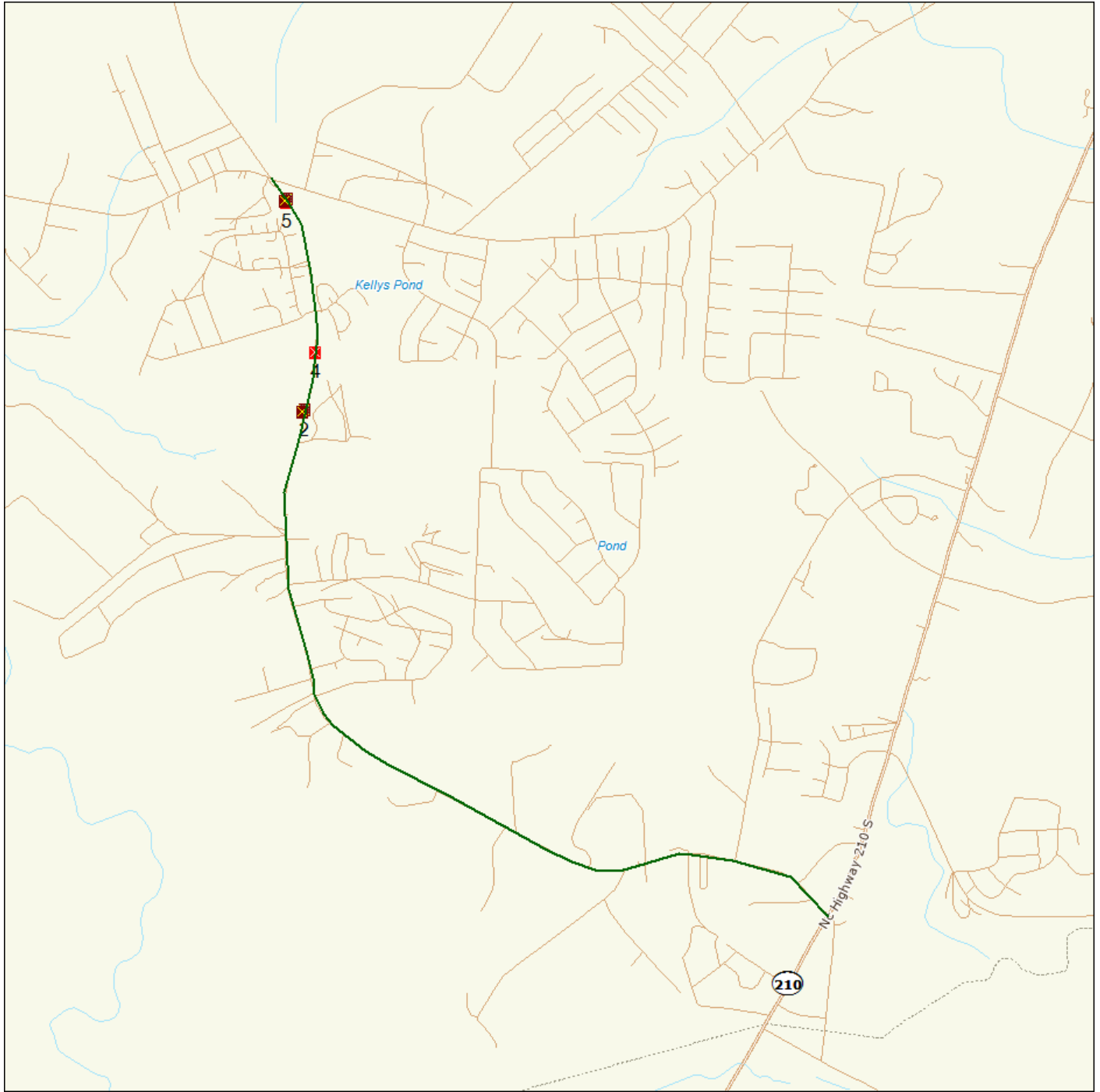
Environmental FirstSearch

.25 Mile Radius from Line

ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS



SR 1121 - NC 210 - SR 1120 , SPRING LAKE, NC 28390



Source: Tele Atlas

- Linear Search Line 
 - Identified Site, Multiple Sites, Receptor   
 - NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste 
 - Triballand 
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



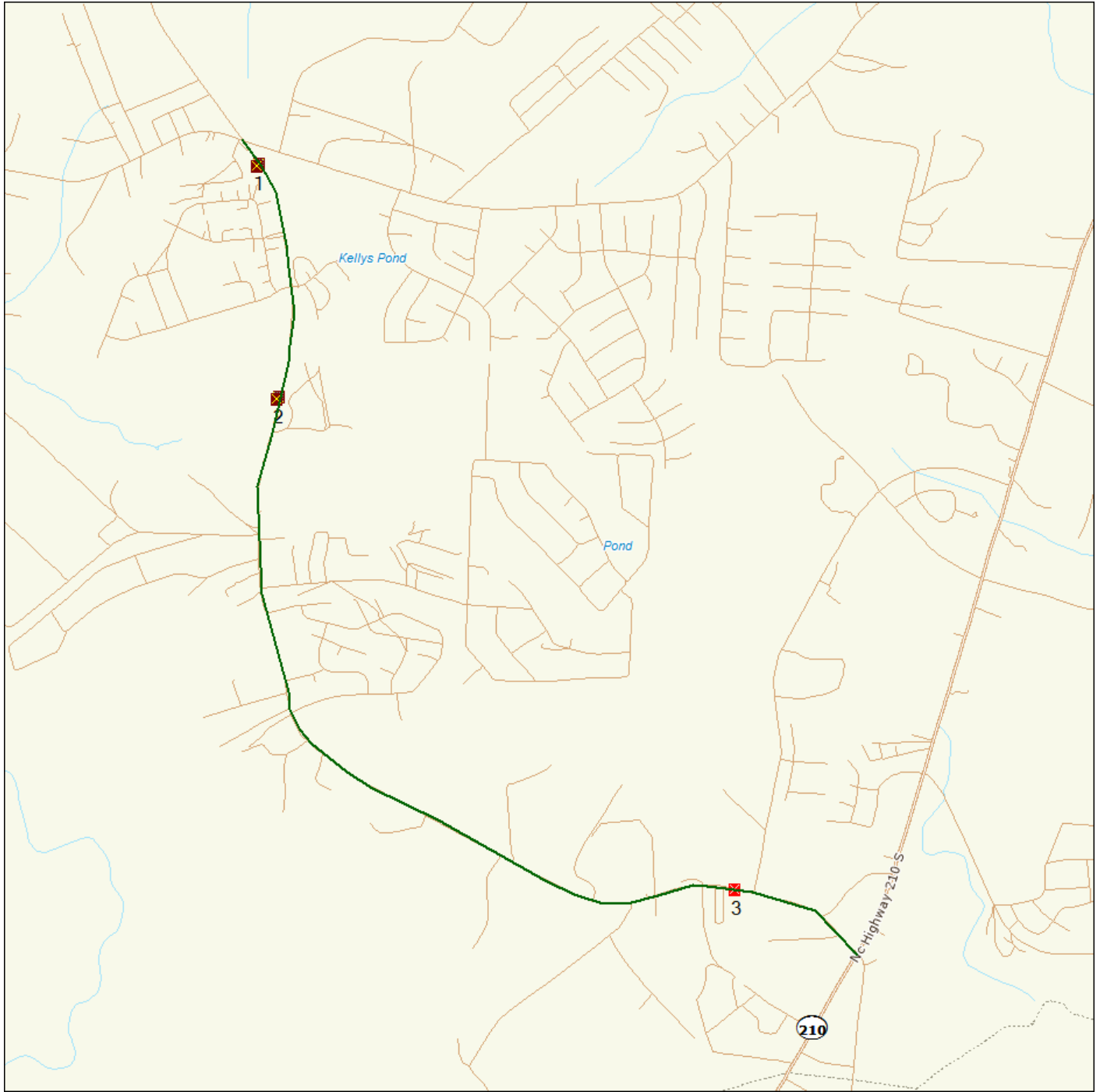
Environmental FirstSearch

.12 Mile Radius from Line

Non-ASTM Map: Spills 90



SR 1121 - NC 210 - SR 1120 , SPRING LAKE, NC 28390



Source: Tele Atlas

- Linear Search Line
 - Identified Site, Multiple Sites, Receptor
 - NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
 - Triballand
 - National Historic Sites and Landmark Sites
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

APPENDIX C

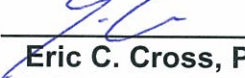
GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

**NCDOT ROW PROJECT
14120 NC-210 S, SPRING LAKE, NC (PARCEL 071)
NCDOT Project U-3465 (39017.1.1)
Harnett County, North Carolina**

October 11, 2012

**Report prepared for: Mr. Gordon Box
North Carolina Department of Transportation
GeoEnvironmental Project Manager
Geotechnical Engineering Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589**

Prepared by: 
Eric C. Cross, P.G.
NC License #2181

Reviewed by: 
Douglas A. Canavello, P.G.
NC License #1066

**PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.
P.O. Box 16265
GREENSBORO, NC 27416-0265
(336) 335-3174**

NCDOT Contract 700012300
PO# 6300031797

NC Board for Licensing of Geologists C-257
NC Board of Examiners for Engineers & Surveyors C-1251

**NCDOT – Geotechnical Engineering Unit
NCDOT ROW PROJECT
14120 NC-210 S, SPRING LAKE, NC (PARCEL 071)
NCDOT Project U-3465 (39017.1.1)
Harnett County, North Carolina**

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2.0 FIELD METHODOLOGY.....	1
3.0 DISCUSSION OF RESULTS.....	2
4.0 SUMMARY & CONCLUSIONS.....	4
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FIGURES

Figure 1	Site Photographs
Figure 2	EM61 Bottom Coil Metal Detection Results
Figure 3	EM61 Differential Metal Detection Results

1.0 INTRODUCTION

Pyramid Environmental & Engineering, PC (Pyramid) conducted a geophysical investigation for the North Carolina Department of Transportation (NCDOT) across the proposed right-of way (ROW) and easement areas of the Stanley Fencing property located at 14120 NC-210 S, Spring Lake, NC (Parcel 071). The survey area, as directed by the NCDOT, spanned from the northeast edge of the parcel to the south, extending to NC-210. The survey area extended from Ray Road to the west approximately 70 feet and from the southern boundary of the Parcel (NC-210) to the approximate northern boundary of the Parcel. Conducted on November 16, 2012, the geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) ROW expansion project to determine if unknown, metallic underground storage tanks (USTs) were present beneath the proposed ROW and easement areas of the site.

The area of the site surveyed was predominantly an open dirt and grass-covered parking area and drainage easement, with some isolated inaccessible zones due to the presence of a gazebo and a group of chairs/tables. The geophysical survey area had a maximum width (east/west) of approximately 70 feet and a maximum length (north/south) of approximately 220 feet. Photographs of the site are shown in **Figure 1**.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigation, a 10-foot by 10-foot survey grid was established across the geophysical survey area using measuring tapes and water-based marking paint. These grid marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM survey was performed on November 16, 2012, using a Geonics EM61 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. Smaller objects

(1-foot or less in size) can be detected to a maximum depth of 4 to 5 feet. All of the EM61 data were digitally collected at approximately 0.8 foot intervals along north-south trending, parallel survey lines spaced five feet apart. All of the data were downloaded to a computer and reviewed in the field and office using the Geonics DAT61MK2 and Surfer for Windows Version 7.0 software programs.

GPR data were acquired on November 16, 2012, across a limited number of EM61 differential anomalies using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Data were collected generally from east to west and north to south across specific EM61 anomalies. All of the GPR data were viewed in real time using a vertical scan of 512 samples, at a rate of 48 scans per second. GPR data were viewed down to a maximum depth of approximately 8 feet, based on an estimated two-way travel time of 8 nanoseconds per foot. Due to the lack of any GPR response related to possible metallic USTs and the limited number of anomalies that could not be directly attributed to visible objects at the ground surface, GPR image files were not saved and only the real-time data collection was used to confirm the nature of the anomalies.

Preliminary geophysical results were emailed to Gordon Box on November 19, 2012.

3.0 DISCUSSION OF RESULTS

Contour plots of the EM61 bottom coil and differential results obtained across the proposed ROW and easement areas at the property are presented in **Figures 2 and 3**, respectively. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drum and UST-size objects and ignore the smaller insignificant metal objects.

The following anomalies were attributed to visible structures at the ground surface: The anomalies located between coordinates X=20 to 50 and Y=200 to 240, as well as the anomaly centered at X=25

between Y=120 and 140 were the result of vehicles parked at these locations. The north-south oriented anomaly at the northeast corner of the survey area was the result of a buried corrugated metal pipe extending across this area. The pipe was observed to be exposed at the ground surface at the north edge of the survey area, and the pipe is also depicted on NCDOT engineering files provided to Pyramid, labeled as “existing minor structure CMP.” The remaining EM61 anomalies interspersed throughout the south portion of the survey area are due to multiple objects at the ground surface including street signs, guy wires, water meters/caps, a power pole, and a fire hydrant. Figures 2 and 3 provide annotations for the majority of the anomalies and the interpreted cause of the EM61 response. These figures can be referred to for additional descriptions of the subsurface objects that are creating the EM61 response. All EM61 anomalies recorded at the property could be directly attributable to visible objects at the ground surface, and thus only a minimal reconnaissance GPR survey was performed.

GPR scans were performed and data viewed in real time predominantly across the EM61 anomaly at the northeast corner of the survey area that was interpreted to be due to as corrugated metal pipe. The GPR scans did not clearly image the corrugated pipe,, suggesting the geologic conditions and/or the condition of the pipe itself may be attenuating the signal and preventing a clear image. The GPR scans did not indicate the presence of any metallic USTs at the site

The geophysical investigation suggests that the area containing the proposed ROW and easement at Parcel 071 does not contain metallic USTs.

In accordance with the scope of work provided to Pyramid by the NCDOT, we also searched the property for any signs of monitor wells or groundwater wells within the proposed ROW or easement areas. No wells were observed at the time of our inspection.

4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the proposed ROW area at the property located at 14120 NC-210 S, Spring Lake, North Carolina, provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the geophysical survey area.
- The anomalies located between coordinates X=20 to 50 and Y=200 to 240, as well as the anomaly centered at X=25 between Y=120 and 140 were the result of vehicles parked at these locations. The north-south oriented anomaly at the northeast corner of the survey area was the result of a buried corrugated metal pipe extending across this area. The remaining EM61 anomalies interspersed throughout the south portion of the survey area are due to multiple objects at the ground surface including street signs, guy wires, water meters/caps, a power pole, and a fire hydrant.
- GPR scans performed across all anomalies not clearly associated with metallic objects at the ground surface provided no evidence of metallic USTs.
- The geophysical investigation suggests that the proposed ROW and easement areas at the property do not contain metallic USTs.
- Site observations did not indicate the presence of any monitor wells or groundwater wells at the time of our inspection.

5.0 LIMITATIONS

EM61 and GPR surveys have been performed and this report prepared for the NCDOT in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR surveys are non-unique and may not represent actual subsurface

conditions. The EM61 and GPR results obtained for this project have not conclusively determined that metallic USTs do not lie within the proposed ROW and easement area of the Harnett County property, but that none were detected.

FIGURES



Photograph of survey area, facing approximately north

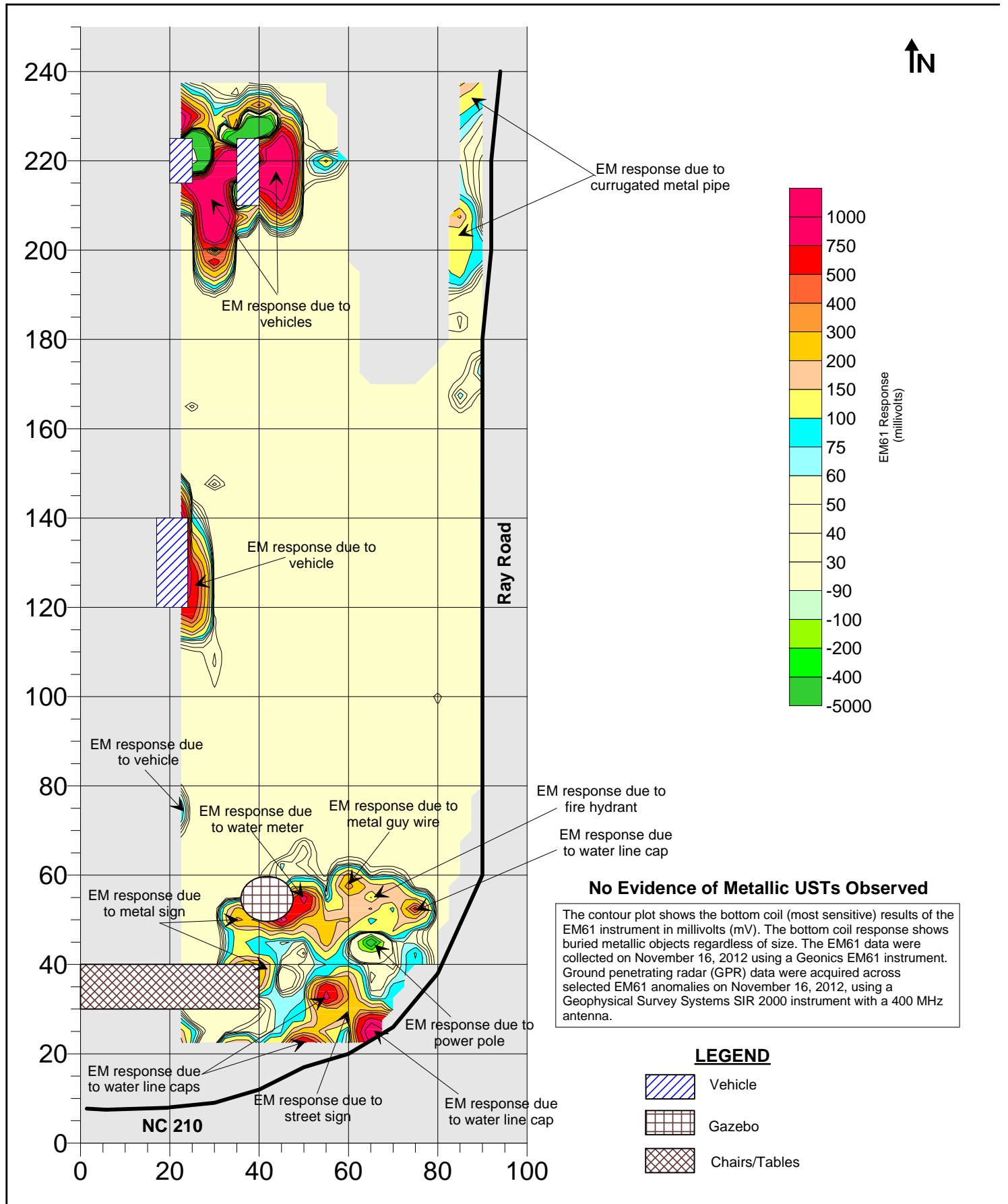


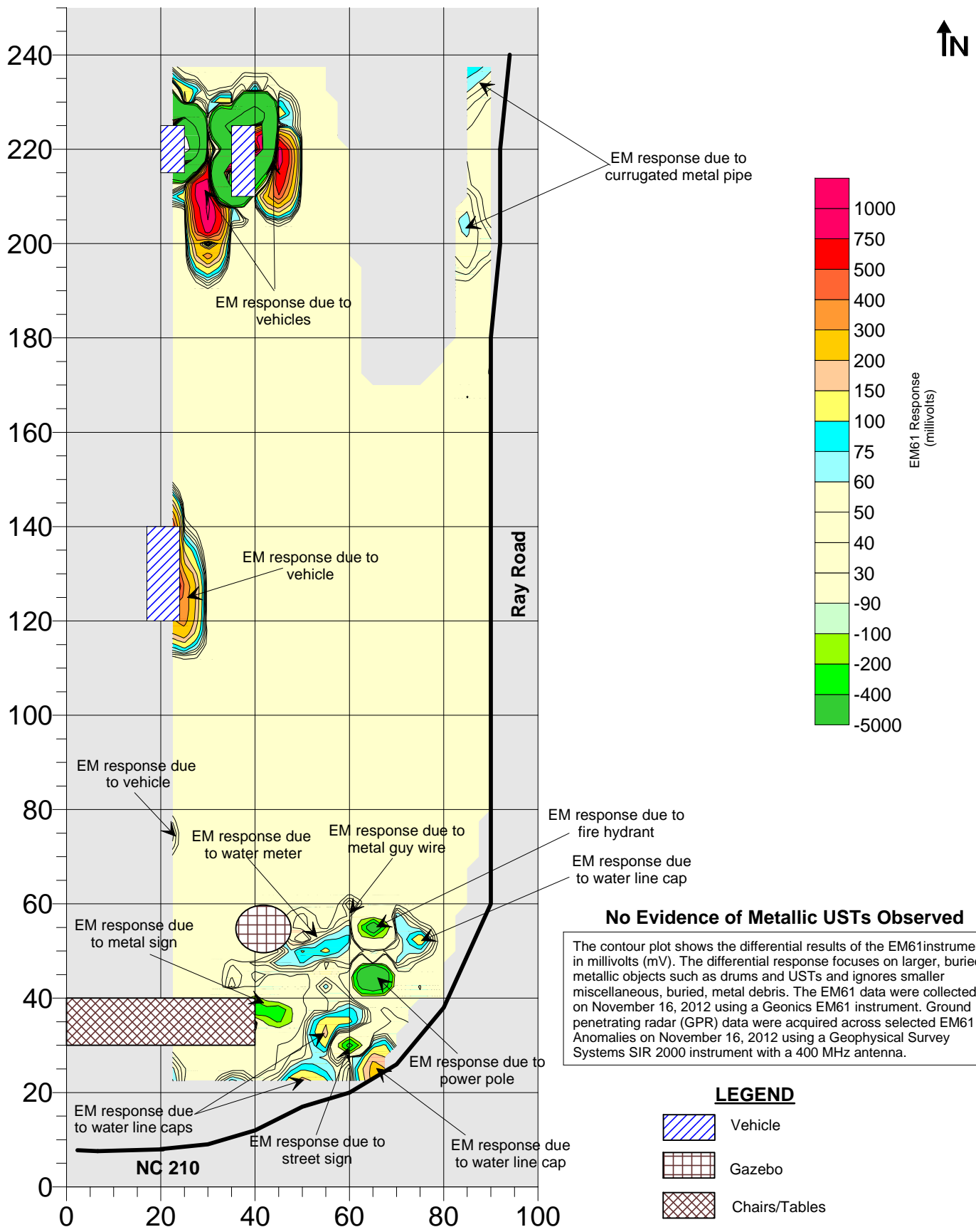
Photograph of survey area, facing approximately south



CLIENT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		DATE	11/16/12	DRAWN	ECC
SITE	NCDOT PROJECT U-3465 (39017.1.1) - PARCEL 071		LAY		CHK'D	
CITY	SPRING LAKE	STATE	NORTH CAROLINA	ENGR		
TITLE	GEOPHYSICAL RESULTS		NO.	2012-228	PROJECT	

SITE PHOTOGRAPHS





CLIENT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		DATE	11/16/12	DRAWN	ECC
SITE	NCDOT PROJECT U-3465 - PARCEL 071		LAY		CHECKED	
CITY	SPRING LAKE	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		LAND	2012-228	PROJECT	

EM61 DIFFERENTIAL RESPONSE CONTOURS

APPENDIX D

APPENDIX E

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: NCDOT-Pyramid

Work Order No.: 31203903

- | | | |
|-----|--|----------------------------------|
| 1. | <input checked="" type="checkbox"/> Shipped
<input type="checkbox"/> Hand Delivered | Notes: _____
_____ |
| 2. | <input checked="" type="checkbox"/> COC Present on Receipt
<input type="checkbox"/> No COC
<input type="checkbox"/> Additional Transmittal Forms | _____

_____ |
| 3. | <input type="checkbox"/> Custody Tape on Container
<input checked="" type="checkbox"/> No Custody Tape | _____
_____ |
| 4. | <input checked="" type="checkbox"/> Samples Intact
<input type="checkbox"/> Samples Broken / Leaking | _____
_____ |
| 5. | <input checked="" type="checkbox"/> Chilled on Receipt Actual Temp.(s) in °C: <u>4.3</u>
<input type="checkbox"/> Ambient on Receipt
<input type="checkbox"/> Walk-in on Ice; Coming down to temp.
<input type="checkbox"/> Received Outside of Temperature Specifications | _____

_____ |
| 6. | <input checked="" type="checkbox"/> Sufficient Sample Submitted
<input type="checkbox"/> Insufficient Sample Submitted | _____
_____ |
| 7. | <input type="checkbox"/> Chlorine absent
<input type="checkbox"/> HNO3 < 2
<input type="checkbox"/> HCL < 2
<input type="checkbox"/> Additional Preservatives verified (see notes) | _____

_____ |
| 8. | <input checked="" type="checkbox"/> Received Within Holding Time
<input type="checkbox"/> Not Received Within Holding Time | _____
_____ |
| 9. | <input checked="" type="checkbox"/> No Discrepancies Noted
<input type="checkbox"/> Discrepancies Noted
<input type="checkbox"/> NCDENR notified of Discrepancies* | _____

_____ |
| 10. | <input type="checkbox"/> No Headspace present in VOC vials
<input type="checkbox"/> Headspace present in VOC vials >6mm | _____
_____ |

Comments: _____

Inspected and Logged in by: JJ
Date: Tue-12/4/12 00:00

Laboratory Report of Analysis

To: Tim Leatherman
Pyramid
PO Box 16265
Greensboro, NC 27416

Report Number: **31203903**

Client Project: **Ray Road Parcel 071**

Dear Tim Leatherman,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Barbara A. Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.



Barbara A. Hager
2012.12.13 11:28:51 -05'00'

Barbara A. Hager
Project Manager
barbara.hager@sgs.com

Date

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
071-1 (3-5)	31203903001	12/03/2012 09:25	12/04/2012 11:10	Soil-Solid as dry weight
071-2 (3-5)	31203903002	12/03/2012 09:45	12/04/2012 11:10	Soil-Solid as dry weight
071-3 (3-5)	31203903003	12/03/2012 10:00	12/04/2012 11:10	Soil-Solid as dry weight
071-4 (6-10)	31203903004	12/03/2012 10:15	12/04/2012 11:10	Soil-Solid as dry weight

Detectable Results Summary

Client Sample ID: 071-1 (3-5) Lab Sample ID: 31203903001-A SW-846 8015C GRO	<u>Parameter</u> Gasoline Range Organics (GRO)	<u>Result</u> 0.567	<u>Units</u> mg/kg	J
Client Sample ID: 071-2 (3-5) Lab Sample ID: 31203903002-C SW-846 8015C DRO SW-846 8015C GRO	<u>Parameter</u> Diesel Range Organics (DRO) Gasoline Range Organics (GRO)	<u>Result</u> 12.8 0.669	<u>Units</u> mg/kg mg/kg	J
Client Sample ID: 071-3 (3-5) Lab Sample ID: 31203903003-C SW-846 8015C DRO SW-846 8015C GRO	<u>Parameter</u> Diesel Range Organics (DRO) Gasoline Range Organics (GRO)	<u>Result</u> 6.95 0.514	<u>Units</u> mg/kg mg/kg	J
Client Sample ID: 071-4 (6-10) Lab Sample ID: 31203903004-A SW-846 8015C GRO	<u>Parameter</u> Gasoline Range Organics (GRO)	<u>Result</u> 0.611	<u>Units</u> mg/kg	J

Results of 071-1 (3-5)

Client Sample ID: **071-1 (3-5)**
 Client Project ID: **Ray Road Parcel 071**
 Lab Sample ID: 31203903001-A
 Lab Project ID: 31203903

Collection Date: 12/03/2012 09:25
 Received Date: 12/04/2012 11:10
 Matrix: Soil-Solid as dry weight
 Solids (%): 81.40

Results by SW-846 8015C GRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	0.567	J		3.85	mg/kg	1	12/10/2012 17:48
Surrogates							
4-Bromofluorobenzene	101			70.0-130	%	1	12/10/2012 17:48

Batch Information

Analytical Batch: **VG2281**
 Analytical Method: **SW-846 8015C GRO**
 Instrument: **GC7**
 Analyst: **MDY**

Prep Batch: **VXX4427**
 Prep Method: **SW-846 5035**
 Prep Date/Time: **12/04/2012 12:16**
 Prep Initial Wt./Vol.: **6.377 g**
 Prep Extract Vol: **5 mL**

Results of 071-1 (3-5)

Client Sample ID: **071-1 (3-5)**
 Client Project ID: **Ray Road Parcel 071**
 Lab Sample ID: 31203903001-C
 Lab Project ID: 31203903

Collection Date: 12/03/2012 09:25
 Received Date: 12/04/2012 11:10
 Matrix: Soil-Solid as dry weight
 Solids (%): 81.40

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND	U	7.12	7.12	mg/kg	1	12/6/2012 8:41
Surrogates							
o-Terphenyl	88.0			40.0-140	%	1	12/6/2012 8:41

Batch Information

Analytical Batch: **XGC2768**
 Analytical Method: **SW-846 8015C DRO**
 Instrument: **GC6**
 Analyst: **DTF**

Prep Batch: **XXX3377**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **12/05/2012 08:50**
 Prep Initial Wt./Vol.: **34.5 g**
 Prep Extract Vol: **10 mL**

Results of 071-2 (3-5)

Client Sample ID: **071-2 (3-5)**
 Client Project ID: **Ray Road Parcel 071**
 Lab Sample ID: 31203903002-A
 Lab Project ID: 31203903

Collection Date: 12/03/2012 09:5R
 Receive Date: 12/05/2012 11:10
 Matrix: Soil-Solids as 4ry weight
 Solids (%): 8R0

Results by SW-846 8015C GRO

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Gasoline range Organics (Gv O)	0.669	J		5.15	mg/kg	1	12/10/2012 17:13
Surrogates							
5-Bromofluorobenzene	102			80.0-130	%	1	12/10/2012 17:13

Batch Information

Analytical Batch: **VG2281**
 Analytical Method: **SW-846 8015C GRO**
 Instrument: **GC7**
 Analyst: **MDY**

Prep Batch: **VXX4427**
 Prep Method: **SW-846 5035**
 Prep Date/Time: **12/04/2012 12:17**
 Prep Initial Wt./Vol.: **6.395 g**
 Prep Extract Vol: **5 mL**

Results of 071- (35-) R

Client Sample ID: 071- (35-) R
 Client Project ID: ayo(a dyP(r yœl \$071
 Lab Sample ID: 31203903002-C
 Lab Project ID: 31203903

Collection Date: 12/03/2012 09:5R
 v eceide4 Date: 12/05/2012 11:10
 Matrix: Soil-Soli4 as 4ry weight
 Soli4s (%): 8RR0

Results by VB -46C(401) D(Oa u

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyze4
Diesel v ange Organics (Dv O)	1 g		k.1R	k.1R	mg/Ng	1	12/7/2012 9:09
Wt oods yB h							
o-6erphenyl	k2.7			50.0-150	%	1	12/7/2012 9:09

Lab (midX yBdm

Analytical Tatch: / GD 7C4
 Analytical Metho4: VB -46C(401) D(Oa u
 Instrument: GDC
 Analyst: OTF

Prep Tatch: / / / 5577
 Prep Metho4: VB -46C(5) 61
 Prep Date/6ime: 1 :0) : 01 ((04.) 0
 Prep Initial B t./Wbl.: 5 g 5(s
 Prep Vxtract Wbl: 10(X L

Results of 071- (3 -5)

Client Sample ID: **071- (3 -5)**
 Client Project ID: **Ray(Road(Parcel(071**
 Lab Sample ID: 31203903003-A
 Lab Project ID: 31203903

Collection Date: 12/03/2012 10:00
 Received Date: 12/04/2012 11:10
 Matrix: Soil-Solid as dry weight
 Solids (%): 91.90

Results by SW-846(8015C(GRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	0.514	J		3.27	mg/kg	1	12/10/2012 18:38
Surrogates							
4-Bromofluorobenzene	100			70.0-130	%	1	12/10/2012 18:38

Batch(Information

Analytical Batch: **VG2281**
 Analytical Method: **SW-846(8015C(GRO**
 Instrument: **GC7**
 Analyst: **MDY**

Prep Batch: **VXX4427**
 Prep Method: **SW-846(50 5**
 Prep Date/Time: **12/04/2012(12:18**
 Prep Initial Wt./Vol.: **6.651(g**
 Prep Extract Vol: **5(mL**

Results of 071-3 (3-5)

Client Sample ID: **071-3 (3-5)**
 Client Project ID: **Ray Road Parcel 071**
 Lab Sample ID: 31203903003-C
 Lab Project ID: 31203903

Collection Date: 12/03/2012 10:00
 Received Date: 12/04/2012 11:10
 Matrix: Soil-Solid as dry weight
 Solids (%): 91.90

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	6.95		6.77	6.77	mg/kg	1	12/6/2012 9:36
Surrogates							
o-Terphenyl	84.3			40.0-140	%	1	12/6/2012 9:36

Batch Information

Analytical Batch: **XGC2768**
 Analytical Method: **SW-846 8015C DRO**
 Instrument: **GC6**
 Analyst: **DTF**

Prep Batch: **XXX3377**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **12/05/2012 08:50**
 Prep Initial Wt./Vol.: **32.16 g**
 Prep Extract Vol: **10 mL**

Results of 071-2 (3-105)

Client Sample ID: 071-2 (3-105)
 Client Project ID:) Ra) yRo dRP ce071
 Lab Sample ID: 3120390300- A
 Lab Project ID: 31203903

Collection Date: 12/03/2012 10:1R
 v eceide4 Date: 12/0- 2012 11:10
 Matrix: Soil/Soli4 as 4ry weight
 Soli4s (%): 8R- 0

Results by I S -V23 W0184 6) C

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date / Analyze
Gasoline v ange Organics (Gv O)	0.311	J		- .0-	mg/kg	1	12/10/2012 19:03
OFF. Rcu							
- Bromofluorobenzene	98.9			0.0430	%	1	12/10/2012 19:03

g R t slyR R yB

/ nalytical 7atch: f 6 4 i i W
 / nalytical Metho4: I S -V23 W0184 6) C
 Instrument: 6 4 7
 / nalyst: MDY

Prep 7atch: f nm22i 7
 Prep Metho4: I S -V23 80V8
 Prep Date5Time: 1i X2X 01i 1i /1W
 Prep Initial Wt.5/ol.: 8G: .
 Prep Extract Vol: 8 I L

Results of 071-3 (5-10)

Client Sample ID: 071-3 (5-10)
 Client Project ID: Ray Road Parcel 071
 Lab Sample ID: 3120390300-/C
 Lab Project ID: 31203903

Collection Date: 12/03/2012 10:1R
 Collection Date: 12/04/2012 11:10
 Matrix: Soil/Solids as 4ry weight
 Solids (%): 8R- 0

Results by SW-835 80146 CRD

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Diesel Range Organics (Dv O)	ND	U	7.2R	7.2R	mg/kg	1	12/05/2012 10:0-
Ortho-Terphenyl	80.3			-0.0/1-0	%	1	12/05/2012 10:0-

Project Information

Analytical Batch: f G6 i 758
 Analytical Method: SW-835 80146 CRD
 Instrument: G65
 Analyst: CTF

Prep Batch: f f f m77
 Prep Method: SW-835 m431
 Prep Date/Time: 11/04/2011 08:20
 Prep Initial Wt./Vol.: m / l : .
 Prep Extract Vol: 10 l L

Batch Summary

Analytical Method: SW-846 8015C GRO

Prep Method: SW-846 5035

Prep Batch: VXX4427

Prep Date: 12/10/2012 08:41

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
LCS for HBN 32292 [VXX/4427]	102521	12/10/2012 13:09	VGC2281	GC7	MDY
LCSD for HBN 32292 [VXX/4427]	102522	12/10/2012 13:35	VGC2281	GC7	MDY
MB for HBN 32292 [VXX/4427]	102523	12/10/2012 14:00	VGC2281	GC7	MDY
071-1 (3-5)	31203903001	12/10/2012 17:48	VGC2281	GC7	MDY
071-2 (3-5)	31203903002	12/10/2012 18:13	VGC2281	GC7	MDY
071-3 (3-5)	31203903003	12/10/2012 18:38	VGC2281	GC7	MDY
071-4 (6-10)	31203903004	12/10/2012 19:03	VGC2281	GC7	MDY
A8E-8-0.5-2.5(102180MS)	102698	12/10/2012 22:50	VGC2281	GC7	MDY
A8E-8-0.5-2.5(102180MSD)	102699	12/10/2012 23:16	VGC2281	GC7	MDY

Method Blank

Blank ID: MB for HBN 32292 [VXX/4427]
 Blank Lab ID: 102523
 QC for Samples:
 31203903001, 31203903002, 31203903003, 31203903004

Matrix: Soil-Solid as dry weight

Results by SW-846 8015C GRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Gasoline Range Organics (GRO)	ND	U	4.00	4.00	mg/kg	1
Surrogates						
4-Bromofluorobenzene	93.6			70.0-130	%	1

Batch Information

Analytical Batch: VGC2281
 Analytical Method: SW-846 8015C GRO
 Instrument: GC7
 Analyst: MDY

Prep Batch: VXX4427
 Prep Method: SW-846 5035
 Prep Date/Time: 12/10/2012 8:41:34AM
 Prep Initial Wt./Vol.: 5 g
 Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 32292 [VXX/4427]
 Blank Spike Lab ID: 102521
 Date Analyzed: 12/10/2012 13:09

Spike Duplicate ID: LCSD for HBN 32292 [VXX/4427]
 Spike Duplicate Lab ID: 102522
 Date Analyzed: 12/10/2012 13:35
 Matrix: Soil-Solid as dry weight

QC for Samples: 31203903001, 31203903002, 31203903003, 31203903004

Results by SW-846 8015C GRO

Parameter	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Gasoline Range Organics (GRO)	16.0	16.7	104	16.0	16.8	105	70.0-130	0.60	30.00

Surrogates

4-Bromofluorobenzene	94.4	95.3	70.0-130
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Batch Information

Analytical Batch: **VGC2281**
 Analytical Method: **SW-846 8015C GRO**
 Instrument: **GC7**
 Analyst: **MDY**

Prep Batch: **VXX4427**
 Prep Method: **SW-846 5035**
 Prep Date/Time: **12/10/2012 08:41**
 Spike Init Wt./Vol.: **5 g** Extract Vol: **5 mL**
 Dupe Init Wt./Vol.: **5 g** Extract Vol: **5 mL**

Batch Summary

Analytical Method: SW-846 8015C DRO

Prep Method: SW-846 3541

Prep Batch: XXX3377

Prep Date: 12/05/2012 08:50

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Analysis Date</u>	<u>Analytical Batch</u>	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 32185 [XXX/3377]	102083	12/05/2012 20:55	XGC2768	GC6	DTF
LCS for HBN 32185 [XXX/3377]	102084	12/05/2012 21:23	XGC2768	GC6	DTF
A7E-1-0.5-1.5(101947MS)	102085	12/06/2012 02:35	XGC2768	GC6	DTF
A7E-1-0.5-1.5(101947MSD)	102086	12/06/2012 03:03	XGC2768	GC6	DTF
071-1 (3-5)	31203903001	12/06/2012 08:41	XGC2768	GC6	DTF
071-2 (3-5)	31203903002	12/06/2012 09:09	XGC2768	GC6	DTF
071-3 (3-5)	31203903003	12/06/2012 09:36	XGC2768	GC6	DTF
071-4 (6-10)	31203903004	12/06/2012 10:04	XGC2768	GC6	DTF

Method Blank

Blank ID: MB for HBN 32185 [XXX/3377]
 Blank Lab ID: 102083
 QC for Samples:
 31203903001, 31203903002, 31203903003, 31203903004

Matrix: Soil-Solid as dry weight

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	ND	U	6.25	6.25	mg/kg	1
Surrogates						
o-Terphenyl	78.0			40.0-140	%	1

Batch Information

Analytical Batch: XGC2768
 Analytical Method: SW-846 8015C DRO
 Instrument: GC6
 Analyst: DTF

Prep Batch: XXX3377
 Prep Method: SW-846 3541
 Prep Date/Time: 12/5/2012 8:50:10AM
 Prep Initial Wt./Vol.: 32 g
 Prep Extract Vol: 10 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 32185 [XXX/3377]

Blank Spike Lab ID: 102084

Date Analyzed: 12/05/2012 21:23

Matrix: Soil-Solid as dry weight

QC for Samples: 31203903001, 31203903002, 31203903003, 31203903004

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Blank Spike (mg/kg)</u>			<u>CL</u>
	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	
Diesel Range Organics (DRO)	62.5	64.4	103	55.0-137
Surrogates				
o-Terphenyl		95.1		40.0-140

Batch Information

Analytical Batch: **XGC2768**

Analytical Method: **SW-846 8015C DRO**

Instrument: **GC6**

Analyst: **DTF**

Prep Batch: **XXX3377**

Prep Method: **SW-846 3541**

Prep Date/Time: **12/05/2012 08:50**

Spike Init Wt./Vol.: **32 g** Extract Vol: **10 mL**

Dupe Init Wt./Vol.: Extract Vol:

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: NCDOT-Pyramid

Work Order No.: 31203903

- 1. Shipped
 Hand Delivered
- 2. COC Present on Receipt
 No COC
 Additional Transmittal Forms
- 3. Custody Tape on Container
 No Custody Tape
- 4. Samples Intact
 Samples Broken / Leaking
- 5. Chilled on Receipt Actual Temp.(s) in °C: 4.3
 Ambient on Receipt
 Walk-in on Ice; Coming down to temp.
 Received Outside of Temperature Specifications
- 6. Sufficient Sample Submitted
 Insufficient Sample Submitted
- 7. Chlorine absent
 HNO3 < 2
 HCL < 2
 Additional Preservatives verified (see notes)
- 8. Received Within Holding Time
 Not Received Within Holding Time
- 9. No Discrepancies Noted
 Discrepancies Noted
 NCDENR notified of Discrepancies*
- 10. No Headspace present in VOC vials
 Headspace present in VOC vials >6mm

Notes: _____

Comments: _____

Inspected and Logged in by: JJ
Date: Tue-12/4/12 00:00

APPENDIX F
