DOMINION
Due Diligence Group

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PHASE I
ENVIRONMENTAL SITE ASSESSMENT
PROPOSED MIXED USE FACILITY
727 NORTH MANGUM STREET
DURHAM, NORTH CAROLINA

D3G PROJECT NUMBER:
2010-1345

FINAL REPORT ISSUE DATE:
DECEMBER 16, 2010

INSPECTION DATE:
NOVEMBER 9, 2010

PREPARED FOR:

CTC PUBLIC BENEFIT CORPORATION
1233 WASHINGTON STREET, SUITE 1000
COLUMBIA, SOUTH CAROLINA 29201

UDI COMMUNITY DEVELOPMENT CORPORATION, INC.
631 UNITED DRIVE
DURHAM, NORTH CAROLINA 27713

Travis Ayers
Project Manager

Signature

Kimberly L. Dingledine
Environmental Professional

Signature

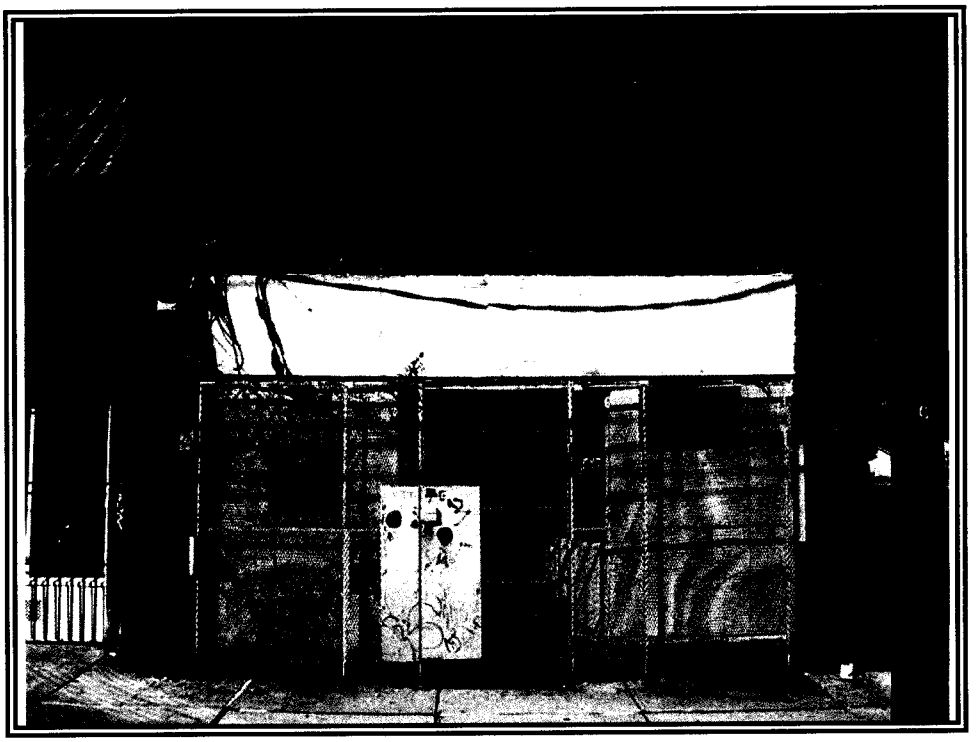
Docket 771627

DOMINION
Due Diligence Group

EXECUTIVE PROPERTY DESCRIPTION

Property: Proposed Mixed Use Facility
727 North Mangum Street
Durham, Durham County, North Carolina

Site Description: The subject property consists of one (1) single-story vacant brick building constructed in 1926. The subject property structure is situated on 0.032 acres of land and contains a gross building area of approximately 1,680 square feet. The subject property is bounded by cleared, undeveloped land to the north; North Mangum Street, Cleveland Street, single-family residences, and UDI Resource Center to the east; Iglesia Evangelicia Principe De Paz, a vacant store, O'Briants Fire Extinguisher, Durham Skateboard Equipment, Bull City Barbers, Labor Work Source , North Mangum Street, and the Shabach Outreach Ministries Christian Church to the south; and cleared, undeveloped land, Carolina Ceramic Coatings, and Terreiro Arte De E Cultura to the west. The subject property is the proposed location of a three-story mixed use facility. The subject property is currently connected to municipally supplied water and sewer.



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1.0 EXECUTIVE SUMMARY

The following table summarizes the conclusions and opinions representing Dominion Due Diligence Group's (D3G's) best professional judgment based on information accessed during the course of this investigation. D3G performed a Phase I Environmental Site Assessment that included site observations of the Proposed Mixed Use Facility on November 9, 2010 located at 727 North Mangum Street in Durham, Durham County, North Carolina (subject property).

OBSERVED CONDITIONS	SECTION REFERENCE	ACCEPTABLE	RECOMMENDED RESPONSE ACTION
STANDARD ENVIRONMENTAL RECORDS REVIEW	5.1	√	
UNREGULATED UNDERGROUND STORAGE TANK(S) (UST)	6.3	√	
PAST INDUSTRIAL/DETRIMENTAL OPERATIONS	5.4 5.5	√	
VAPOR ENCROACHMENT CONDITION	5.6	√	
STORED HAZARDOUS MATERIALS	6.3 6.4	√	
POLYCHLORINATED BIPHENYLS (PCBS)	6.3 6.4	√	
ABOVEGROUND STORAGE TANK(S) (AST)	6.3 6.4	√	
DUMPING, LANDFILLS	6.3	√	
HAZARDOUS RUN-OFF	6.3	√	
ASBESTOS-CONTAINING MATERIALS	8.1		(1)
LEAD-BASED PAINT	8.2		(2)
FLOOD ZONE	8.4	√	
WETLANDS	8.5	√	
NOISE	8.10		(3)
OTHER	NA	√	

(√) = there are no environmental concerns associated with the observed condition

(1) D3G recommends removal of the identified ACMs by a licensed asbestos abatement contractor in accordance with applicable local, state and federal guidelines prior to demolition activities.

(2) According to information provided by the developer, the front building façade is to remain and the remainder of the structure will be demolished. Per 24 CFR 35 – Subpart G 35.630, full abatement of lead-based paint hazards is required. D3G recommends that any lead-based paint identified on the wall that is to remain be removed via chemical stripping or component removal. Components identified as containing lead in *any concentration* are required be handled in accordance with 29 CFR 1926.62, the OSHA "Lead Exposure in Construction" Standard (OSHA does not define LBP). In addition, all

generated debris containing lead-based paint is to be appropriately disposed of in accordance with applicable EPA RCRA requirements.

(3) Pursuant to 24 CFR 51.101(a)(3), the composite DNL 71.7 decibels (dB) is "normally unacceptable". The requirements set out in Section 51.104(a) are designated to insure that interior levels do not exceed the established 45 dB level. The calculated projected exterior noise value is 71.7 dB; therefore, the combined wall, window and door STC ratings will need to reduce the interior noise level by at least 26.7 dB.

2.0 INTRODUCTION

2.1 Purpose

CTC Public Benefit Corporation, on behalf of the current owner, UDI Community Development Corporation, Inc., and as part of the City of Durham's EPA Brownfield Assessment Project, contracted Dominion Due Diligence Group (D3G) to perform a Phase I Environmental Site Assessment (ESA) of the Proposed Mixed Use Facility located at 727 North Mangum Street in Durham, Durham County, North Carolina (subject property). As such, CTC Public Benefit Corporation is considered the "User" of this report as defined under ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process Designation: E 1527-05 (ASTM E 1527 05).

The purpose of the Phase I ESA is to provide appropriate inquiry into the previous ownership and uses of the subject property and to identify recognized environmental conditions (RECs), which are the presence or likely presence of any hazardous substances or petroleum products at the subject property under conditions that indicate an existing release, a past release, or a material threat of a release into structures, the ground, groundwater or surface water of the subject property. In addition, this report assesses non-scope considerations as directed by the client. Factual information regarding on-site business operations, conditions, and historical data provided to D3G is assumed to be correct and complete.

This investigation was conducted in accordance with ASTM E 1527-05 published guidelines, 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries: Final Rule, U.S. Housing and Urban Development (HUD) Multifamily Housing Accelerated Processing Guide, and accepted Phase I ESA industry standards.

2.2 Detailed Scope of Services

The ASTM E 1527-05 scope of work for this Phase I ESA consisted of the following:

- site reconnaissance of the subject property and a visual survey of the adjacent properties to evaluate the potential for RECs;
- review of applicable and reasonably ascertainable information about the subject property, including aerial photography, USGS topographic map, state and federal databases, Sanborn maps, property assessment information and other governmental sources that are publically available, practically reviewable, and obtainable within reasonable time and cost constraints;
- interviews with selected individuals knowledgeable about the subject property and vicinity properties; and
- if provided, a review of existing environmental reports documenting previous assessment and remediation efforts completed at the subject property.

D3G also evaluated the following ASTM Non-Scope Considerations in accordance with the 2009 U.S. HUD Multifamily Housing Accelerated Processing (MAP) Guide: Tier 1 Vapor Encroachment Screening in general compliance with ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions Designation: E 2600-10, asbestos-containing materials, lead-based paint, floodplain hazards, wetlands, coastal barrier resources area, coastal zone management, historic properties, threatened and endangered species, sole source aquifers, noise, airport clear zones, air emissions and additional nuisances and hazards. See the completed HUD Environmental Questionnaire provided in Appendix M and the HUD Form 4128 and Environmental Field Data Sheets in Appendix N for the remaining HUD report protocols.

This Phase I ESA did not include the collection or analysis of soil or groundwater samples.

2.3 Significant Assumptions

Factual information regarding on-site business operations, conditions, and historical data provided to D3G is assumed to be correct and complete. D3G assumes no responsibility for hidden or latent conditions or misrepresentation by the property owner, its representatives, public information officials or any authority consulted in connection with the compilation of this report.

D3G assumes that all information provided by Environmental FirstSearch regarding the regulatory status of facilities within the approximate minimum search distance is complete, accurate and current.

2.4 Limitations and Exceptions

D3G encountered the following limitations, exceptions, and/or data gaps during the performance of this Phase I ESA:

- Our on-site observations pertain only to specific locations at specific times on specific dates. This report and conclusions herein are based upon data collection between October 28, 2010 and December 2, 2010. Our observations and conclusions do not reflect variations in conditions that may exist, in unexplored areas of the site, or at times other than those represented by our observations.
- In order for the prospective purchaser to claim protection from CERCLA liability as an innocent landowner, bona fide prospective purchaser, or contiguous property owner, the acquisition of the subject property should be completed within 180 days after the subject property inspection date.
- According to 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries: Final Rule, CERCLA liability rests with the owner or operator of a property and not with an environmental professional hired by the prospective landowner and who is not involved with the ownership or operation of the property.
- This report meets the requirements set forth in 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries: Final Rule. However, in order to qualify for certain landowner liability protections under CERCLA, Bona Fide Prospective Purchasers, Contiguous Property Owners, and/or Innocent Landowners must meet additional requirements in 101(35)(B) of CERCLA (42 U.S.C. 9601(35)) of the Federal Register.
- No significant data gaps in historical information were identified that would impact D3G's ability to identify RECs. Collectively the sources considered and consulted during the course of this assessment allowed D3G to adequately determine the subject property history. Therefore, these data gaps are not considered to be significant.
- In regards to the Tier 1 Vapor Encroachment Screening, D3G has reduced the approximate minimum search distance for up-gradient and cross-gradient off-site contaminated properties based on actual plume data collected for dry cleaners, state hazardous waste sites, and evaluation of actual gas station LUST data as outlined in the article, *A Smaller Intrusion,* by Anthony J. Buonicore, P.E. published in the May 2009 Issue of Pollution Engineering magazine.
- Historical information was not reasonably ascertainable to the subject property's first developed use. D3G obtained historical information to 1913 at which time the subject property was developed with a residential dwelling and associated out structure. Due to the residential nature of the subject property and surrounding area in 1913, this limitation is not significant.

2.5 Special Terms and Conditions

This investigation was conducted in accordance with ASTM E 1527-05 published guidelines and 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries: Final Rule. In addition, Non-Scope items are addressed in accordance with the 2009 U.S. HUD Multifamily Housing Accelerated Processing (MAP) Guide.

2.6 User Reliance

This report has been prepared for, and can be relied upon by the Client, CTC Public Benefit Corporation, UDI Community Development Corporation, Inc., and the United States Department of Housing and Urban Development (HUD). This report is not to be relied upon or reproduced, either in whole or in part, without written consent from D3G.

3.0 SUBJECT PROPERTY DESCRIPTION

3.1 Location and Legal Description

The subject property is located at 727 North Mangum Street in Durham, Durham County, North Carolina and contains a total of 0.032 acres of land. The subject property is situated at an elevation of approximately 385-390 feet above mean sea level and is located at Latitude, 36.001099 and Longitude, -78.895396.

SUBJECT PROPERTY MUNICIPAL IDENTIFICATION	
PARCEL NUMBER	104905
SOURCE - Durham County assessment documents	

A copy of the tax card and map illustrating the legal property boundary is included in Appendix A of this report.

3.2 Site and Vicinity General Characteristics

The subject property is located in an area of residential and commercial development.

3.3 Current Use of the Subject Property

The subject property currently consists of one (1) single-story vacant brick building.

3.4 Description of Structures, Roads, and Other Improvements

The following section describes general conditions and features as noted during D3G's inspection:

GENERAL SITE DESCRIPTION AND IMPROVEMENTS	
SUBJECT PROPERTY ACREAGE	0.032 acres
BUILDING(S) DESCRIPTION	One (1) single-story vacant brick building
ADJOINING ROADS	North Mangum Street and Cleveland Street
CONSTRUCTION DATE(S)	1926
EXTERIOR IMPROVEMENTS	None
UNIMPROVED AREAS	None

Architectural Site Plans completed by Ellen Cassilly Architect Inc. were provided to D3G for review. The plans detail the proposed future development of the subject property mixed-use facility. A copy of the Architectural Site Plans is included in Appendix B of this report.

3.4.1 Subject Property Utilities

SUBJECT PROPERTY UTILITIES	
ELECTRICITY	NA
NATURAL GAS	NA
WATER	City of Durham
SANITARY SEWER	City of Durham
INDUSTRIAL WASTEWATER	NA
SOLID WASTE	NA

The subject property structure remains connected to municipal water and sewer. Due to the fact the structure is currently vacant, it does not currently utilize electricity, natural gas, or solid waste disposal; however these utilities were observed in the vicinity of the subject property.

3.5 Current Uses of Adjoining Properties

DIRECTION	LAND USAGE
NORTH	Cleared, undeveloped land
SOUTH	*Iglesia Evangelicia Principe De Paz (725), Vacant (723), O'Briants Fire Extinguisher (721), Durham Skateboard Equipment (719), Bull City Barbers (717), Labor Work Source (715), North Mangum Street, and Shabach Outreach Ministries Christian Church
EAST	North Mangum Street, Cleveland Street, single-family residences, and the UDI Resource Center
WEST	Cleared, undeveloped land, Carolina Ceramic Coating, and Terreiro De Arte E Cultura

*Addresses located on North Mangum Street

The UDI Resource Center is discussed further in Sections 5.1.1 and 5.6.

See Appendix B for a copy of the Site Plan, which identifies the subject property structure, site boundaries, and general vicinity characteristics.

4.0 USER PROVIDED INFORMATION

4.1 Title Records

OWNER	PURCHASE DATE	DEED BOOK/PAGE
UDI Community Development Corporation	11/13/2009	006363/000011
City of Durham	Unknown	Unknown
SOURCE – Durham County assessment documents, property questionnaires, and interviews		

Due to the nature of the tax assessment documents and deed records, a thorough chain-of-title was not reasonably ascertainable.

4.2 Environmental Liens or Activity and Use Limitations (AULs)

It is the User's responsibility to provide D3G with information pertaining to environmental liens or AULs. According to information provided in the completed User Questionnaire, there are no environmental liens or AULs associated with the subject property.

4.3 Specialized Knowledge

According to the completed User Questionnaire, the Current Landowner Representative did not indicate to D3G that they were aware of any specialized knowledge or experience that is material to recognized environmental conditions in connection with the subject property. The Current Landowner Representative was unaware of any environmental liens or activity use limitations (AULs) encumbering the property or in connection with the subject property.

4.4 Commonly Known or Reasonably Ascertainable Information

The Current Landowner Representative did not indicate to D3G, in the completed User Questionnaire, that they were aware of commonly known or reasonably ascertainable information within the local community about the property that is material to recognized environmental conditions in connection with the property.

4.5 Valuation Reduction for Environmental Issues

D3G has not been provided any knowledge of valuation reduction for environmental issues pertaining to the subject property by the User or Current Landowner Representative.

4.6 Owner, Property Manager, and Occupant Information

The subject property is currently owned by UDI Community Development Corporation and the Current Landowner questionnaire is discussed further in Section 7.2. The subject property consists of a vacant structure, therefore, Property Management and occupant information is not required.

4.7 Reason for Performing Phase I ESA

The Current Landowner informed D3G that the Phase I ESA is being performed because the subject property structure is being demolished with the exception of the front brick façade, which is being preserved for historical reasons. The property is being developed into a three-story mixed use facility including retail, office, and residential floor space.

4.8 Previous Environmental Reports

D3G was not provided additional information from the user.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

5.1.1 State Regulatory Records

According to ASTM E 1527-05, Section 8.1.2.1, the search radius may be reduced due to the urban nature of the subject property and surrounding area. Therefore, the concern attributed to leaking underground storage tank (LUST) sites is minimized to the immediate vicinity of the subject property.

DATABASE	FINDINGS	
STATE AND TRIBAL LEAKING UNDERGROUND STORAGE TANK DATA (LUST)	On-Site: Adjacent: 0.33 Mile Radius:	None One (1) Fifteen (15)
STATE AND TRIBAL UNDERGROUND STORAGE TANK DATA (UST)	On-Site: Adjacent: 0.25 Mile Radius:	None Two (2) Twelve (12)
STATE AND TRIBAL VOLUNTARY CLEANUP PROGRAM SITES (VCP)	On-Site: Adjacent: 0.50 Mile Radius:	None None One (1)
STATE AND TRIBAL BROWNFIELD SITES (BROWNFIELDS)	On-Site: Adjacent: 0.50 Mile Radius:	None None Five (5)
STATE AND TRIBAL HAZARDOUS WASTE SITES (SHWS)	On-Site: Adjacent: 1.00 Mile Radius:	None None Fifteen (15)
STATE AND TRIBAL INSTITUTIONAL/ENGINEERING CONTROLS (IC/EC)	On-Site: Adjacent: 0.15 Mile Radius:	None None None
STATE AND TRIBAL REGISTERED SOLID WASTE LANDFILLS (SWL)	On-Site: Adjacent: 0.75 Mile Radius:	None None One (1)
STATE SPILLS SITES (SPILLS)	On-Site: Adjacent: 0.15 Mile Radius:	None One (1) One (1)
Source - State of North Carolina governmental records accessed by Environmental FirstSearch		

The following table summarizes the state-regulated facilities that are located on-site, adjacent and/or are environmental concerns:

FACILITY	ADDRESS	DATABASE(S)	STATUS	DISTANCE/DIRECTION/ GRADIENT
American Textiles Services (also listed as Johnson Forrester, Inc. and Helen Farthing)	800 North Mangum Street	LUST/UST (listed twice)/SPILLS	Response/ Permanently Closed	Adjacent/NE/down-gradient
Equipment Maintenance	120 Broadway Street	LUST/UST/ SPILLS	Closed Out/ Permanently Closed	0.09 miles/W/up-gradient

American Textiles Services (also listed as Johnson Forrester, Inc. and Helen Farthing), located adjacent to the northeast and topographically down-gradient from the subject property at 800 North Mangum Street, is listed as a LUST and SPILLS incident and twice as a UST facility involving a total of eight (8) USTs. Currently, the facility is owned by UDI Community Development Corporation, Inc., and is utilized as the UDI Resource Center. Johnson Forrester, Inc. was listed as a UST facility involving one (1) 5,000-gallon Stoddard solvent UST installed on July 5, 1976, one (1) 10,000-gallon fuel oil UST installed on July 5, 1978, and one (1) 10,000-gallon gasoline/gasoline mixture UST, one (1) 7,500-gallon gasoline/gasoline mixture UST, and one (1) 5,000-gallon gasoline/gasoline mixture UST, all installed on December 5, 1956. According to the Environmental FirstSearch Report, the three (3) USTs installed in 1956 were permanently closed on December 31, 1988 and the two (2) USTs installed in 1976 and 1978 were permanently closed on January 17, 1994. Helen Farthing was also listed as a UST facility involving three (3) 1,000-gallon mineral spirit USTs installed on January 1, 1964. According to the Environmental FirstSearch Report, the three (3) mineral spirit USTs were permanently closed on July 13, 1994. American Textiles Services was listed as a LUST incident involving releases of Stoddard solvent and diesel fuel on March 21, 1994 associated with the above referenced USTs. According to the Environmental FirstSearch Report, the leak was reported to cause both soil and groundwater contamination and the risk of the incident was classified as low. The LUST incident was reported to involve two (2) separate sites at the same location and is listed as "current record".

D3G performed a file review of the American Textiles Services LUST and SPILLS incident and UST facilities at the North Carolina Department of Environment and Natural Resources (NCDENR) Raleigh Field Office on November 9, 2010. According to a Level I Environmental Property Assessment performed by SITEX Environmental, Inc. (SITEX) on November 3, 1992, one (1) 10,000-gallon fuel tank (installed in 1978) and one (1) 7,500-gallon and one (1) 5,000-gallon petroleum solvent tanks (installed in 1976) were removed from the property on December 31, 1988. The report also noted that three (3) additional USTs were reported to have been present on-site; however, there was no evidence of any currently active USTs during the SITEX site inspection. SITEX recommended contacting the company that removed the USTs in December 1998 to determine whether there was evidence of soil or groundwater contamination; however, no documentation regarding the three (3) USTs was provided during the file review. SITEX also noted that eight (8) drums containing mineral spirits and solvents were observed to the north of the building and were not observed to be leaking.

However, soils beneath the drums appeared to be stained as a result of previous drum storage activities. SITEX collected one (1) soil sample in the vicinity of the drum storage area, which was analyzed for High Fraction Hydrocarbons, Low Fraction Hydrocarbons, Halogenated Volatile Organics, and Aromatic Volatile Organics. Elevated levels of High Fraction Hydrocarbons (identified as mineral spirits), benzene, toluene, ethylbenzene, and xylenes (BTEX), and tetrachloroethane (TCE) were identified. In addition, SITEX identified Farthing Fabricare as a RCRA small quantity generator of hazardous waste (EPA ID #982165102); however, according to the EPA Facility Registry System (FRS) accessed at http://www.epa.gov/enviro/html/fii/fii_query_java.html, the adjacent facility is inactive as of January 4, 2006 and was therefore not included within the Environmental FirstSearch Report as a federally regulated facility. In addition, according to the EPA Enforcement and Compliance History Online (ECHO) accessed at http://www.epa-echo.gov/, the adjacent facility was last inspected on July 16, 1992 and is listed as being compliant as of November 9, 2010.

D3G was provided a Tank Closure Report performed by ENSCI Engineering Group, P.A. (ENSCI) dated May 6, 1994 for review. On March 21, 1994, ENSCI removed one (1) 8,000-gallon Stoddard solvent UST and one (1) 10,000-gallon diesel fuel UST. Groundwater samples taken below the Stoddard UST revealed volatile aromatic and semi-volatile compounds at low concentrations. The tank was observed to be in good physical condition upon removal, suggesting contamination from spillage and overfill. Although groundwater was impacted, the location of the former Stoddard solvent UST is approximately 0.06 miles down-gradient from the subject property. Additionally, no detectable levels of volatile or semi-volatile compounds were found in groundwater samples at the former diesel UST location, which is approximately 0.08 miles down-gradient from the subject property. Contaminated soil was stockpiled on-site for future disposal. According to a letter produced by the NCDENR dated August 11, 1994, confirmation of the final destination of any contaminated soils must be submitted prior to closure. ENSCI advised in a letter dated August 23, 1994 that approximately fifty (50) cubic yards of contaminated soils were excavated and were to be disposed of along with an additional approximately twelve (12) cubic yards of contaminated soil, which were excavated during the removal of three (3) USTs formerly located inside the building at the property.

D3G was provided a UST Closure Report performed by ENSCI dated August 25, 1994 for review. On July 12, 1994, ENSCI removed three (3) 550-gallon Stoddard solvent USTs. Soil samples were analyzed in the area of the USTs and elevated levels of petroleum hydrocarbons were found. However, groundwater was not impacted during the removal, contamination was noted as soil only, and the location of the former three (3) Stoddard solvent USTs is approximately 0.05 miles down-gradient from the subject property. In addition, as previously discussed, approximately twelve (12) cubic yards of contaminated soil was excavated for future disposal.

O'Brien and Gere Technical Services, Inc. (OGTS) was hired in March of 1995 to excavate contaminated soils on the property. Approximately forty-five (45) cubic yards of contaminated soils containing elevated concentrations of Stoddard solvent were removed.

In addition, an analysis of water from a monitoring well located in the center of the soil contamination indicated no petroleum constituents in the groundwater.

On March 18, 1996, the NCDENR sent a letter requiring a Comprehensive Site Assessment and Corrective Action Report due to the elevated levels of chemicals in the groundwater. The owner of the property passed away and the assessment was never completed. According to a phone interview as part of the Phase I ESA with Mr. Edward Stewart, President and CEO of UDI Community Development Corporation and the Current Landowner, remediation activities at the structure were complete prior to his purchase of the property and following the death of the Previous Landowner in 1995. Based on the listed distances to the former UST locations and topographic relationship, the adjacent facility is not suspected to present current environmental concerns to the subject property. The adjacent facility is discussed further in Section 5.6 of this report.

Equipment Maintenance, located 0.09 miles to the west and topographically up-gradient from the subject property at 120 Broadway Street, is listed as a LUST and SPILLS incident and UST facility involving one (1) 550-gallon permanently out of use oil mixture UST installed on September 21, 1989. According to the Environmental FirstSearch Report, a release of oil was reported on May 13, 1996, on the same date the UST was removed. The risk of the incident was classified as low and the leak was reported to cause soil contamination only. The case was closed on August 7, 2000. The subject property is located approximately 490 feet from the facility, which is located outside the critical distance (30 feet) for petroleum contaminated soil with regards to Vapor Encroachment. Based on the distance and current regulatory status, the vicinity facility is not suspected to present current environmental concerns to the subject property. The vicinity facility is discussed further in Section 5.6 of this report.

The remaining state-regulated facilities are not located on-site or adjacent and are not of environmental concern to the subject property. The closest remaining record is located approximately 0.07 miles to the southwest of the subject property. Based on the listed distances, topographical relationships and/or current regulatory statuses, the remaining state-regulated facilities are not suspected to have negatively impacted the environmental integrity of the subject property.

5.1.2 Federal Regulatory Records

DATABASE	FINDINGS	
EPA NATIONAL PRIORITIES LISTING (NPL – SUPERFUND)	On-Site: Adjacent: 1.00 Mile Radius:	None None None
EPA NATIONAL PRIORITIES LISTING (NPL – DELISTED SITES)	On-Site: Adjacent: 0.50 Mile Radius:	None None None
EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLIS)	On-Site: Adjacent: 0.50 Mile Radius:	None None None
EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLIS) NO FURTHER REMEDIAL ACTION PLANNED (NFRAP)	On-Site: Adjacent: 0.50 Mile Radius:	None None Two (2)
EPA RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)	On-Site: Adjacent: 0.25 Mile Radius:	None None Two (2)
EPA RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) TREATMENT, STORAGE, AND DISPOSAL (TSD)	On-Site: Adjacent: 0.50 Mile Radius:	None None None
FEDERAL INSTITUTIONAL/ENGINEERING CONTROLS (IC/EC)	On-Site: Adjacent: 0.15 Mile Radius:	None None None
EPA EMERGENCY RESPONSE NOTIFICATION-SITES (ERNS)	On-Site: Adjacent: 0.15 Mile Radius:	None None None
EPA RCRA CORRECTIVE ACTION REPORT (CORRACTS)	On-Site: Adjacent: 1.00 Mile Radius:	None None None
SOURCE - Environmental Protection Agency records accessed by Environmental FirstSearch		

The CERCLIS NFRAP and RCRA generators of hazardous waste are not located on-site or adjacent and are not of environmental concern to the subject property. The closest record is located approximately 0.23 miles southwest of the subject property. Based on the listed distances, topographic relationship, and/or current regulatory statuses, the vicinity federally-regulated facilities are not suspected to present environmental concerns to the subject property.

5.1.3 Database Non-Geocoded/Un-Mapable Sites

No non-geocoded sites were determined to be located within the applicable search radius for ASTM E 1527-05.

5.2 Additional Environmental Record Sources

There were no other sources for environmental records that were reviewed for this study.

5.3 Physical Setting Sources

5.3.1 Topography and Regional Surface Water

TOPOGRAPHY AND REGIONAL SURFACE WATER	
ELEVATION (feet above mean sea level)	385-390
SLOPE	East - northeast
APPROXIMATE GROUNDWATER FLOW	East - northeast
REGIONAL SURFACE WATER	A tributary of Goose Creek is located approximately 700 feet to the east - northeast of the subject property.
SOURCE - USGS Topographic Quadrangles – *Northwest Durham, North Carolina* - 2010, *Southwest Durham, North Carolina* – 2010, *and City of Durham Topographic Map* - 2010	

Located in the Appendix A is a topographic map depicting subject property elevations and drainage patterns. Depth to groundwater fluctuates depending on hydrological and weather conditions.

On-site drainage at the subject property is suspected to consist of flow along the cement sidewalk to strategically located storm drains along North Mangum Street.

5.3.2 Soil Characteristics

SOIL CHARACTERISTICS	
SOIL TYPES	*White Store – Urban land complex (WwC):* This map unit consists of six (6) to ten (10) percent slopes found on hillslopes on ridges, uplands, and urban land. The natural drainage class is moderately well drained and water movement at the most restrictive layer is low. This soil does not meet hydric soil criteria.
SOURCE - Web Soil Survey accessed at http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx	

5.4 Historical Use Information on the Subject Property

5.4.1 Review of Aerial Photographs

YEAR	SUBJECT PROPERTY
1950	Current subject property structure
1972	Same as 1950
1993	Same as 1950
1998	Same as 1950
2006	Same as 1950
2010	Same as 1950
SOURCE - USGS EarthExplorer and Google Earth	

A copy of the aerial photography is included in Appendix D of this report.

5.4.2 Fire Insurance Maps

YEAR	SUBJECT PROPERTY
1913	One (1) residential dwelling and associated out structure
1937	One (1) store (current structure)
1950	Same as 1937
1979	One (1) commercial structure
SOURCE - Environmental Data Resources, Inc.	

Copies of the Sanborn Fire Insurance Maps are included in Appendix D.

5.4.3 Other Historical Sources

Historical city directories from 1920 to 2009 were accessed through Environmental Data Resources, Inc. for the subject property and surrounding vicinity. The information reviewed in the directories confirms the age and nature of the subject property structure.

YEAR	SUBJECT PROPERTY
1920	Address not listed
1925	Address not listed
1930	Colelough Wm S Grocery
1935	Colelough Wm S Grocery
1940	Pickards Market Grocery
1949	Thompson Home Bakery
1954	Whiteway Market Grocery
1958	H & W Appliance Center Inc.
1963	Cinderella Beauty Salon
1969	Wilkins Printing Company
1983	Triangle Barber Shop

YEAR	SUBJECT PROPERTY
1990	Vacant
1995	Vivian Used Furniture and Grocery
1997	Vivian Used Furniture and Grocery
2009	No Current Listing
SOURCE - Environmental Data Resources, Inc.	

5.4.4 Summary of Subject Property History

According to the reviewed subject property historical information, the subject property consisted of one (1) residential structure since at least 1913, which was demolished prior to the construction of the current subject property structure in 1926. The current subject property structure has since been utilized for various commercial uses including, but not limited to, a grocery store, bakery, appliance center, beauty salon, printing company, barber shop, and furniture store. Subject property observations and a review of past subject property tenants did not indicate that previous on-site activities have negatively impacted the environmental condition of the subject property.

None of the accessed data depicts underground storage tanks (USTs) at the former residential structure; however, there exists the possibility that the former structure utilized underground or aboveground storage tanks (USTs/ASTs). No visual evidence of USTs (fill ports/vent pipes) or ASTs was observed during the site inspection. If ASTs or USTs were formerly located at the subject property, they should have been removed during the demolition of the structure.

5.5 Historical Use Information on Adjoining Properties

5.5.1 Review of Aerial Photographs

YEAR	NORTH	SOUTH	EAST	WEST
1950	Commercial structures and single-family residences	Commercial structures	Commercial structures and single-family residences	Commercial structures, single-family residences and undeveloped land
1972	Same as 1950	Same as 1950	Same as 1950	Commercial structures and undeveloped land
1993	Same as 1950	Same as 1950	Same as 1950	Same as 1972
1998	Same as 1950	Same as 1950	Same as 1950	Same as 1972
2006	Same as 1950	Same as 1950	Same as 1950	Same as 1972
2010	Same as 1950	Same as 1950	Same as 1950	Same as 1972
SOURCE - USGS EarthExplorer and Google Earth				

A copy of the aerial photography is included in Appendix D of this report.

5.5.2 Fire Insurance Maps

YEAR	NORTH	SOUTH	EAST	WEST
1913	One (1) store and Corporation Street	Two (2) residential dwellings	North Mangum Street, one (1) drug store, two (2) stores, and multiple residential dwellings	Multiple residential dwellings
1937	Two (2) stores and Corporation Street	Five (5) stores	North Mangum Street, one (1) filling station, one (1) drycleaner, and multiple residential dwellings	One (1) residential dwelling, one (1) auto repair shop, and one (1) junk yard
1950	One (1) store, one (1) restaurant, and Corporation Street	One (1) plumbing shop, one (1) restaurant, and four (4) stores	North Mangum Street, one (1) dry-cleaning and laundry facility, one (1) hosiery shop, multiple stores, and multiple residential dwellings	One (1) plumbing shop, one (1) metal chair manufacturing and welding shop with paint booth, and one (1) junk yard
1979	Same as 1950	One (1) plumbing shop, three (3) stores, and one (1) commercial structure	North Mangum Street, two (2) stores, multiple commercial structures, and multiple residential dwellings	One (1) vacant structure, one (1) iron works shop, and one (1) junk yard
SOURCE - Environmental Data Resources, Inc.				

Copies of the Sanborn Fire Insurance Maps are included in Appendix D.

D3G reviewed Sanborn Fire Insurance Maps from 1913 through 1979. An auto repair shop, a metal chair manufacturing and welding shop with paint booth, an iron works shop, and a junk yard are all listed adjacent to the west and up-gradient of the subject property. One (1) UST associated with the junk yard is depicted in the 1950 Sanborn map; however, it is no longer depicted in the 1979 Sanborn map. Additionally, none of the listed businesses are currently in use at their former locations, and visual observation of the adjacent up-gradient properties did not reveal any evidence of USTs (fill ports/vent pipes) or ASTs. Therefore, the previous up-gradient vicinity manufacturing and storage activities are not suspected to have negatively impacted the environmental integrity of the subject property.

A filling station and three (3) associated USTs are depicted to the northeast and down-gradient of the subject property in the 1937 Sanborn map. A dry cleaning and laundry facility is also listed at the same location in the 1937 and 1950 Sanborn maps. The location of the

filling station and dry cleaning/laundry facility are discussed previously as American Textile Services in Sections 5.1.1 and 5.6.

5.5.3 Other Historical Sources

Historical city directories from 1920 to 2009 were accessed through Environmental Data Resources, Inc. for the subject property and surrounding vicinity. The information reviewed in the directories confirms the age and nature of the subject property and vicinity properties.

YEAR	NORTH	SOUTH	EAST	WEST
1920	No addresses listed	No addresses listed	North Durham Electric Shoe (800)	No addresses listed
1925	No addresses listed	North Durham Drug Store (714)	Whitmore's Bakery and Grocery (800)	No addresses listed
1930	North Durham Barber Shop (729), City Ice Cream Co (731)	North Durham Drug Store (714), The A & P Tea Co (721), Scott & Roberts Cleaners (723), Vacant (725)	Barbee W A & Co Grocery (800)	No addresses listed
1935	North Durham Barber Shop (729), City Ice Cream Co (731)	North Durham Drug Store (714), The A & P Tea Co (721), Kirkland's Grocery (723), Steve's Place Restaurant (725)	Shell Eastern Petroleum Filling Station (800)	No addresses listed
1940	North Durham Barber Shop (729), City Ice Cream Co (731)	North Durham Drug Store (714), A & P Food Stores Grocery (721), Kirkland's Grocery (723), Factory Sales Co (725)	Mize Service Station (800)	No addresses listed
1944	M & G New and Used Clothing (729), City Ice Cream Co (731)	North Durham Drug Store (714), Vacant (721), Kirkland's Grocery (723), Arrow Plumbing & Heating Co Inc (725)	Silver Sales Service, Inc. (1020), Mize Service Station (800)	No addresses listed
1949	North Durham Barber Shop (729), City Ice Cream Co (731)	North Durham Drug Store (714), Nicolaou Geo Restaurant (721), Kirkland's Grocery (723), Arrow Plumbing & Heating Co Inc (725)	Frederick's Beauty Salon (1020), Best Tire Service Repairs (800)	No addresses listed

YEAR	NORTH	SOUTH	EAST	WEST
1954	North Durham Barber Shop (729), City Ice Cream Co (731)	North Durham Drug Store (714), Christy's Grill (721), Vacant (723), Vacant (725)	Cinderella Beauty Salon (1020), Johnson Forrester Inc Cleaners (800)	No addresses listed
1958	North Durham Barber Shop (729), City Ice Cream Co (731)	North Durham Drug Store (714), Christy's Grill (721), Vacant (723), Vacant (725)	Cinderella Beauty Salon (1020), Johnson Forrester Inc Cleaners (800)	No addresses listed
1963	North Durham Barber Shop (729), City Ice Cream Co (731)	North Durham Drug Store (714), Vacant (721), Clark Brothers Pluming Co (723), Vacant (725)	Garland's Taxidermy Shop (1020), Johnson Forrester Inc. Cleaners (800)	Durham Electric Co, AFI Committee on Public Education (103)
1969	North Durham Barber Shop (729), City Ice Cream Co (731)	Eden's North Durham Drug Inc (714),Olsen Music Co (721), Clark Brothers Pluming Co (723), Universal Sewing Center (725)	Johnson Forrester Inc. Cleaners (800)	Durham Electric Co. Controls (103)
1975	Loves Barber Shop (729)	No addresses listed	Laney's Beauty Nook (1975), Johnson Forrester Inc. Cleaners and Launderers (800)	No addresses listed
1979	No addresses listed	Robert M Phillips (723)	Rose's Beauty Nook (1020), Johnson Forrester Inc. Cleaners and Launderers (800), Farthing Fabricare Cleaners (800)	No addresses listed
1983	Cisco (731)	Vacant (714), Water Boy Jr. Used Merchandise (721), North Durham Auto Parts (723), Glenn's Produce and Grocery (725)	Johnson Forrester Inc Cleaners and Launderers (800), Farthing Fabricare Cleaners (800)	Special Services (103)
1990	No addresses listed	Triangle Baking Company Inc (714),Greg Plachta Photo (721), Vacant (723), House of Deliverance Church (725)	Farthing Division of Johnson Forrester Inc Laundry (800)	Faithcen New Life Churches (103), Vega Metals Inc (105)

YEAR	NORTH	SOUTH	EAST	WEST
1995	No addresses listed	Triangle Baking Company Inc (714), Obriant's Fire Extinguisher (721)	No addresses listed	Faithcen New Life Churches (103)
1997	No addresses listed	Triangle Baking Company Inc. (714), Obriant's Fire Extinguisher (721), Minutemen Furniture Stripping (725)	No addresses listed	More Than Conquerors Ministries (103)
2002	No addresses listed	Iron Works (714),Obriant's Fire Extinguisher (721), Shabach Outreach Ministries (725)	No addresses listed	No addresses listed
2009	No addresses listed	Obriant's Fire Extinguisher (721), Rock of Ages Ministries (725)	Multiple commercial uses (800)	No addresses listed
SOURCE - Environmental Data Resources, Inc.				

*Addresses (700-800) are located along North Mangum Street
*Addresses 103 and 105 are located on West Corporation Street
*Address 1020 is located on Cleveland Street

Copies of the City Directories are included in Appendix D.

5.6 Tier 1 Vapor Encroachment Screening

D3G performed a Tier 1 Vapor Encroachment Screening in compliance with ASTM E 2600-10 "ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" as amended. The purpose of the Tier 1 Vapor Encroachment Screening is to conduct an initial screen to determine if a Vapor Encroachment Condition (VEC) exists in connection with the subject property. A VEC is defined as the presence or likely presence of chemical of concern (COC) vapors in the subsurface of the subject property caused by the release of vapors from contaminated soil or groundwater either on or near the subject property.

D3G reviewed standard environmental record sources to identify if there are known or suspected sources of contamination within the area of concern (AOC). According to ASTM E 2600-10, the area of concern is defined by the approximate minimum search distance which is based upon the chemical of concern (i.e. petroleum hydrocarbons vs. non-petroleum hydrocarbons) and the location of a known or suspected source of contamination with respect to the subject property.

According to ASTM E 2600-10 8.2.1 *"The area of concern is one third of a mile around the subject property, unless the use of a shorter distance is appropriate."* In addition, according to ASTM E 2600-10 8.3.1, *"The approximate minimum search distance may be expanded or reduced in the up-gradient, down-gradient, and/or cross-gradient directions by the environmental professional conducting the Vapor Encroachment Screening based upon experience in the local area."* Therefore, D3G has reduced the approximate minimum search distance for up-gradient and cross-gradient contaminated properties based on actual plume data collected for dry cleaners, state hazardous waste sites, and evaluation of actual gas station LUST data as outlined in the article, *A Smaller Intrusion*, by Anthony J. Buonicore, P.E. published in the May 2009 Issue of Pollution Engineering magazine. A copy of the article is provided in Appendix E. The revised approximate minimum search distances are provided in the table below. Unless otherwise stated, groundwater flow/gradient is approximated based on surface topography.

D3G was not provided information from the User, Current Landowner, or Key Site Manager, regarding specialized knowledge or experience or commonly known or reasonably ascertainable information within the local community about the subject property that is material to the assessment of a VEC in connection with the subject property.

<u>Subject Property</u>

Based on a review of the Environmental FirstSearch Report, the subject property is not identified in the State Records Search or in the Federal Records Search. In addition, according to a review of subject property historical use information that is reasonably ascertainable, there are no known or suspect potentially contaminated sources having chemicals of concern (petroleum hydrocarbons or non-petroleum hydrocarbons) associated with the subject property. Therefore, a Vapor Encroachment Condition (VEC) does not exist or is not likely to exist at the subject property.

Contaminated Properties within the Area of Concern

The following table identifies contaminated properties within the revised approximate minimum search distances, based on a review of the Environmental FirstSearch Report and a review of adjacent historical use information that is reasonably ascertainable.

	UP-GRADIENT SOURCES: NUMBER OF IDENTIFIED RECORDS		DOWN-GRADIENT SOURCES: NUMBER OF IDENTIFIED RECORDS		CROSS-GRADIENT SOURCES: NUMBER OF IDENTIFIED RECORDS	
Search Distance	**COC : 1/3 mile**	**Petroleum: 1/10 mile**	**COC : 0.02 mile (100 ft)**	**Petroleum: 0.02 mile (100 ft)**	**COC: 0.07 mile (365 ft)**	**Petroleum: 0.03 mile (165 ft)**
State Standard Environmental Record Sources						
LUST	--	1	1	--	--	--
VCP	--	--	--	--	--	--
BROWNFIELDS	--	--	--	--	--	--
SHWS	--	--	--	--	--	--
SWL	--	--	--	--	--	--
Federal Standard Environmental Record Sources						
NPL	--	--	--	--	--	--
CERCLIS	--	--	--	--	--	--
RCRA CORRACTS	--	--	--	--	--	--
RCRA TSD	--	--	--	--	--	--

*A review of the state and federal environmental records sources obtained from the Environmental FirstSearch Report is provided in Appendix E.

American Textiles Services (also listed as Johnson Forrester, Inc. and Helen Farthing), located adjacent to the northeast and topographically down-gradient from the subject property at 800 North Mangum Street, is listed as a LUST and SPILLS incident and twice as a UST facility involving a total of eight (8) USTs. Currently, the facility is owned by UDI Community Development Corporation, Inc., and is utilized as the UDI Resource Center. Johnson Forrester, Inc. was listed as a UST facility involving one (1) 5,000-gallon Stoddard solvent UST installed on July 5, 1976, one (1) 10,000-gallon fuel oil UST installed on July 5, 1978, and one (1) 10,000-gallon gasoline/gasoline mixture UST, one (1) 7,500-gallon gasoline/gasoline mixture UST, and one (1) 5,000-gallon gasoline/gasoline mixture UST, all installed on December 5, 1956. According to the Environmental FirstSearch Report, the three (3) USTs installed in 1956 were permanently closed on December 31, 1988 and the two (2) USTs installed in 1976 and 1978 were permanently closed on January 17, 1994. Helen Farthing was also listed as a UST facility involving three (3) 1,000-gallon mineral spirit USTs installed on January 1, 1964. According to the Environmental FirstSearch Report, the three (3) mineral spirit USTs were permanently closed on July 13, 1994. American Textiles Services was listed as a LUST incident involving releases of Stoddard solvent and diesel fuel on March 21, 1994 associated with the above referenced

USTs. According to the Environmental FirstSearch Report, the leak was reported to cause both soil and groundwater contamination and the risk of the incident was classified as low. The LUST incident was reported to involve two (2) separate sites at the same location and is listed as "current record".

D3G performed a file review of the American Textiles Services LUST and SPILLS incident and UST facilities at the North Carolina Department of Environment and Natural Resources (NCDENR) Raleigh Field Office on November 9, 2010. According to a Level I Environmental Property Assessment performed by SITEX Environmental, Inc. (SITEX) on November 3, 1992, one (1) 10,000-gallon fuel tank (installed in 1978) and one (1) 7,500-gallon and one (1) 5,000-gallon petroleum solvent tanks (installed in 1976) were removed from the property on December 31, 1988. The report also noted that three (3) additional USTs were reported to have been present on-site; however, there was no evidence of any currently active USTs during the SITEX site inspection. SITEX recommended contacting the company that removed the USTs in December 1998 to determine whether there was evidence of soil or groundwater contamination; however, no documentation regarding the three (3) USTs was provided during the file review. SITEX also noted that eight (8) drums containing mineral spirits and solvents were observed to the north of the building and were not observed to be leaking. However, soils beneath the drums appeared to be stained as a result of previous drum storage activities. SITEX collected one (1) soil sample in the vicinity of the drum storage area, which was analyzed for High Fraction Hydrocarbons, Low Fraction Hydrocarbons, Halogenated Volatile Organics, and Aromatic Volatile Organics. Elevated levels of High Fraction Hydrocarbons (identified as mineral spirits), benzene, toluene, ethylbenzene, and xylenes (BTEX), and tetrachloroethane (TCE) were identified. In addition, SITEX identified Farthing Fabricare as a RCRA small quantity generator of hazardous waste (EPA ID #982165102); however, according to the EPA Facility Registry System (FRS) accessed at http://www.epa.gov/enviro/html/fii/fii_query_java.html, the adjacent facility is inactive as of January 4, 2006. In addition, according to the EPA Enforcement and Compliance History Online (ECHO) accessed at http://www.epa-echo.gov/, the adjacent facility was last inspected on July 16, 1992 and is listed as being compliant as of November 9, 2010.

D3G was provided a Tank Closure Report prepared by ENSCI Engineering Group, P.A. (ENSCI) dated May 6, 1994 for review. On March 21, 1994, ENSCI removed one (1) 8,000-gallon Stoddard solvent UST and one (1) 10,000-gallon diesel fuel UST. Groundwater samples taken below the Stoddard UST revealed volatile aromatic and semi-volatile compounds at low concentrations. The tank was observed to be in good physical condition upon removal, suggesting contamination from spillage and overfill. Although groundwater was impacted, the location of the former Stoddard solvent UST is approximately 0.06 miles down-gradient from the subject property. Additionally, no detectable levels of volatile or semi-volatile compounds were found in groundwater samples at the former diesel UST location, which is approximately 0.08 miles down-gradient from the subject property. Contaminated soil was stockpiled on-site for future disposal. According to a letter produced by the NCDENR dated August 11, 1994, confirmation of the final destination of any contaminated soils must be submitted prior to closure. ENSCI advised in a letter dated August 23, 1994 that approximately fifty (50) cubic yards of contaminated soils were excavated and would be

disposed of along with an additional approximately twelve (12) cubic yards of contaminated soil, which were excavated during the removal of three (3) USTs formerly located inside the building at the property.

D3G was provided a Tank Closure Report prepared by ENSCI dated August 25, 1994 for review. On July 12, 1994, ENSCI removed three (3) 550-gallon Stoddard solvent USTs. Soil samples were analyzed in the area of the USTs and elevated levels of petroleum hydrocarbons were found. However, groundwater was not impacted during the removal, contamination was noted as soil only, and the location of the former three (3) Stoddard solvent USTs is approximately 0.05 miles down-gradient from the subject property. In addition, as previously discussed, approximately twelve (12) cubic yards of contaminated soil was excavated for future disposal.

O'Brien and Gere Technical Services, Inc. (OGTS) was hired in March of 1995 to excavate contaminated soils on the property. Approximately forty-five (45) cubic yards of contaminated soils containing elevated concentrations of Stoddard solvent were removed. In addition, an analysis of water from a monitoring well located in the center of the soil contamination indicated no petroleum constituents in the groundwater.

On March 18, 1996, the NCDENR sent a letter requiring a Comprehensive Site Assessment and Corrective Action Report due to the elevated levels of chemicals in the groundwater. The owner of the property passed away and the assessment was never completed. According to a phone interview as part of the Phase I ESA with Mr. Edward Stewart, President and CEO of UDI Community Development Corporation and the Current Landowner, remediation activities at the structure were complete prior to his purchase of the property and following the death of the Previous Landowner in 1995. Based on the listed distances to the former UST locations and topographic relationship, the adjacent facility is not suspected to present current environmental concerns to the subject property. Therefore a VEC does not exist or is not likely to exist at the subject property that is associated with the adjacent facility.

Equipment Maintenance, located 0.09 miles to the west and topographically up-gradient from the subject property at 120 Broadway Street, is listed as a LUST and SPILLS incident and UST facility involving one (1) 550-gallon oil mixture UST installed on September 21, 1989. According to the Environmental FirstSearch Report, a release of oil was reported on May 13, 1996, on the same date the tank was removed. The risk of the incident was classified as low, and the leak was reported to cause soil contamination only. The case was closed on August 7, 2000. The subject property is located approximately 490 feet from the facility, which is located outside the critical distance (30 feet) for petroleum contaminated soil with regards to Vapor Encroachment. Based on the distance and current regulatory status, the facility is not suspected to present environmental concerns to the subject property. Therefore, a VEC does not exist or is not likely to exist at the subject property that is associated with the vicinity facility.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

D3G's site inspection consisted of visual observations along boundaries and various transects throughout the subject property. The adjacent properties were observed from the subject property and the boundaries of the subject property and public right-of-ways.

6.2 General Site Setting

The subject property consists of one (1) single-story vacant brick building constructed in 1926. The subject property structure is situated on 0.032 acres of land and contains a gross building area of approximately 1,680 square feet. The subject property is bounded by cleared, undeveloped land to the north; North Mangum Street, Cleveland Street, single-family residences, and UDI Resource Center to the east; Iglesia Evangelicia Principe De Paz, a vacant store, O'Briants Fire Extinguisher, Durham Skateboard Equipment, Bull City Barbers, Labor Work Source , North Mangum Street, and the Shabach Outreach Ministries Christian Church to the south; and cleared, undeveloped land, Carolina Ceramic Coatings, and Terreiro Arte De E Cultura to the west. The subject property is the proposed location of a three-story mixed use facility. The subject property is currently connected to municipally supplied water and sewer.

6.3 Exterior Observations

EXTERIOR OBSERVATIONS	OBSERVED	NOT OBSERVED
HAZARDOUS MATERIALS AND PETROLEUM PRODUCTS		√
POLYCHLORINATED BIPHENYLS (PCBS)		√
SUBJECT PROPERTY DUMPED MATERIALS/LANDFILLS	(1)	
SOLID WASTE DISPOSAL		√
SPILLS/STAINED SOILS/STAINED PAVEMENT/STRESSED VEGETATION		√
STORAGE TANKS NOT PREVIOUSLY LISTED		√
WELLS NOT PREVIOUSLY LISTED		√
HAZARDOUS RUNOFF		√
PITS, PONDS, OR LAGOONS*		√
ODORS		√

*Excludes stormwater drainage features

(1) Various dumped debris (construction debris, household trash, etc.) was observed in the vicinity of the subject property structure during the site inspection. The dumped debris was observed in *de minimis* amounts and is considered non-hazardous in nature. Based on the non-hazardous nature and *de minimis* amounts, the on-site dumped debris is not suspected to present an environmental concern to the environmental integrity of the

subject property. However, the dumped debris should be properly disposed of in accordance with local, state, and federal regulations prior to site development.

No evidence of landfills was identified at the subject property.

6.4 Interior Observations

INTERIOR OBSERVATIONS	OBSERVED	NOT OBSERVED
HAZARDOUS MATERIALS AND PETROLEUM PRODUCTS	(1)	
POLYCHLORINATED BIPHENYLS (PCBS)		√
STORAGE TANKS NOT PREVIOUSLY LISTED		√
ODORS		√
DRAINS AND/OR SUMPS		√
POOLS OF LIQUID		√

(1) No bulk storage of hazardous materials or petroleum products was identified at the subject property. However, one (1) 5-gallon Kerosene container and one (1) bag of Imperial QT spray wall texture were observed in the rear portion of the subject property structure. None of the stored materials were observed to be leaking or to have had signs of major spillage. No floor drains or other potential receptors for the release of hazardous materials were observed within the areas of material storage. The on-site chemicals are commercially available, stored in limited quantities, and are not believed to present an environmental concern to the subject property.

7.0 INTERVIEWS

7.1 Prospective Landowner/User Questionnaire

A Property Questionnaire was completed by Mr. David Sykes, Environmental Scientist with CTC Public Benefit Corporation and the Current Landowner Representative, and returned to D3G. A copy of the completed Property Questionnaire is included in Appendix F.

7.2 Current Landowner Questionnaire

A Property Questionnaire was completed by Mr. Edward Stewart, President and CEO of UDI Community Development Corporation and the Current Landowner Representative, and returned to D3G. Mr. Stewart indicated that he purchased the subject property in 2009 and has been associated with the property for one (1) year. A copy of the completed Property Questionnaire is included in Appendix F.

7.3 Previous Landowner Questionnaire

A Property Questionnaire was completed by Ms. Donna Lunsford, Senior Real Estate Officer with the City of Durham and the Previous Landowner Representative, and returned to D3G. Ms. Lunsford indicated that she was associated with the property for seven (7) years. A copy of the completed Property Questionnaire is included in Appendix F.

7.4 Key Site Manager Questionnaire

The subject property consists of a vacant structure and does not have any business operations requiring a key site manager; therefore, a Key Site Manager Questionnaire is not necessary for this investigation.

7.5 Occupant Questionnaire

The subject property consists of a vacant structure and does not have any occupants; therefore, an Occupant Questionnaire is not necessary for this investigation.

7.6 Local Agencies Contacted

D3G contacted Mr. Edward Reid, Assistant Fire Marshal for the City of Durham Fire Department, on November 4, 2010 for a review of their environmental records (i.e. USTs, hazardous materials storage, and spills) for the subject property; however a response has not yet been received. A copy of the correspondence is located in Appendix F of this report.

D3G contacted the Durham County Health Department (919-560-7830) on November 16, 2010 for a review of their environmental records including regional environmental health issues, on-site wells and/or septic system records for the subject property. According to Patrick C. Eaton, Regional Environmental Health Specialist, there are no records on file for the subject property. A copy of the correspondence is located in Appendix F of this report.

7.7 Additional Persons Interviewed

INTERVIEWED PERSON	POSITION/RELATION TO PROPERTY	INTERVIEW DATE	CONTENT OF DISCUSSION
Keith Barnhouse	Project Architect with ECA Inc.	11/9/2010	Discussed future demolition/development plans for the subject property structure and provided site plans.

8.0 INVESTIGATION FOR NON-SCOPE CONSIDERATIONS

8.1 Asbestos-Containing Materials

The facility was constructed in 1926, during a time of asbestos-containing building material usage. Mr. Ryan Burnett, a State of North Carolina licensed Asbestos Inspector (NC License #12661) with Get the Lead Out, LLC, conducted a pre-demolition asbestos survey at the subject property on November 17, 2010. Sampled materials included ceiling texture material, sheetrock, ceiling tiles, roofing materials, and vinyl flooring materials and associated mastics. Due to the unsafe condition of the structure and limited amount of suspect asbestos-containing materials observed within the structure, only nine (9) material samples were collected during the survey. An asbestos-containing material is defined as containing greater than 1% asbestos. The following table itemizes the sampled materials and their respective asbestos concentrations:

SAMPLE NUMBER	SAMPLED MATERIAL	LOCATION	% ASBESTOS
1	Sheetrock	Interior walls	None detected
2	Ceiling tile	Front main room ceiling	None detected
3	Ceiling texture	Front main room entrance	None detected
4 (layer 1)	White FT	Front main room	None detected
4 (layer 2)	Yellow mastic a/w White FT	Front main room	None detected
5 (layer 1)	**White/Green FT 9"x 9"**	**Front main room**	**4% chrysotile**
5 (layer 2)	**Black mastic a/w White/Green FT**	**Front main room**	**3% chrysotile**
5 (layer 3)	**White/Green FT 9"x 9"**	**Front main room**	**5% chrysotile**
5 (layer 4)	**Black mastic a/w White/Green FT**	**Front main room**	**4% chrysotile**
6 (layer 1)	Red FT 3' x 3'	Front main room	None detected
6 (layer 2)	**Black/Brown mastic a/w Red FT**	**Front main room**	**2% chrysotile**
7	Ceiling tile	Rear main room	None detected
8	Black roof tar	Roof	None detected
9	Black roof felt and tar	Roof	None detected

a/w = associated with; FT = floor tile

The identified asbestos-containing materials are denoted in bold type. The identified ACMs are considered to be non-friable (not able to be crushed via hand pressure) materials and were observed to be in fair physical condition at the time of the site inspection.

A copy of the Asbestos Inspection Report is included in Appendix Q.

Recommendations are listed in Section 11.0 of this report.

8.2 Lead-Based Paint

The facility was constructed in 1926, prior to the 1978 ban on lead-based paint (LBP). Kevin Joseph and Don Suleski, North Caronia licensed Lead-Based Paint Risk Assessors (license #120226 and 110214, respectively) with Get the Lead Out, LLC, conducted a lead-based paint inspection at the subject property on November 17 and November 19, 2010. The lead paint inspection was completed utilizing an X-ray fluorescence (XRF) lead paint analyzer, which quickly, accurately, and non-destructively measures the concentration of lead-based paint on surfaces. Sampled surfaces consisted of walls, doors, and associated framework, windows and associated framework, ceilings, baseboards, miscellaneous components and exterior components. The XRF readings were compared to the EPA and United States Department of Housing and Urban Development lead in paint standard of 1.0 mg/cm^2. The results of this inspection indicate that some of the sampled components contained lead-based paint. Lead-based paint was identified on exterior concrete and brick walls, the exterior door, window and door casings and trim, interior corner trim, laminate ceilings, select interior walls, and stair stringers. Paint conditions ranged from intact to poor.

A copy of the Lead-Based Paint Inspection Report is included in Appendix R.

Recommendations are listed in Section 11.0 of this report.

8.3 Radon Gas

U.S. EPA RADON DATA	
ZONE	3
ZONE DEFINITION	Average reading less than 2 picocuries/liter (pCi/L)
SOURCE - U.S. EPA Radon Map	

The proposed property structure does not contain subgrade living areas, which reduces the potential for radon gas. In addition, HUD guidelines do not regulate radon gas.

8.4 Flood Zone

According to FEMA Flood Insurance Rate Map (FIRM) #372008-3100J, dated May 2, 2006, the subject property is located in Zone X, designated as an area outside the 100 and 500-year flood zones and the flood potential for the subject property is minimal.

8.5 Wetlands

A wetland delineation/determination has not been performed at the subject property; however, according to the USFWS National Wetlands Inventory map accessed at http://www.fws.gov/wetlands/Data/Mapper.html and visual observations, there are not suspected to be any wetland areas on the subject property.

8.6 Coastal Barrier Resource Area/Coastal Zone Management

According to Coastal Barrier Resource Area information accessed at http://www.fema.gov/business/nfip/cbrs/cbrs.shtm, the subject property is not located within a coastal barrier. According to the North Carolina Division of Coastal Management, Durham County is not located within a Coastal Management Zone.

8.7 Historic Properties

The subject property is not listed, and is not suspected to be eligible to be listed, in the National Register of Historic Places. However, the subject property structure is located within the North Durham-Duke Park National Historic District in the City of Durham. The front building façade is planned to be retained for historical reasons; however, the remainder of the structure is to be demolished. A determination letter has been sent to the North Carolina State Historic Preservation Officer and Tribal Historic Preservation Officer; however, responses have not yet been received.

A copy of the SHPO and THPO correspondence and the National Register of Historic Places for Durham County is provided in Appendix J.

8.8 Threatened and Endangered Species

The U.S. Department of the Interior Endangered Species list was reviewed. Based on the developed nature of the subject property, none of the listed species are suspected to inhabit the subject property.

A copy of the U.S. Department of the Interior Threatened and Endangered Species System for North Carolina is provided in Appendix K.

8.9 Sole Source Aquifer

According to an EPA Groundwater and Drinking Water publication, the site is not serviced or supplied by a protected aquifer system. A copy of the EPA Groundwater and Drinking Water publication is provided in Appendix L.

8.10 Noise

The subject property is located within 1,000 feet of North Mangum Street (SR 15), North Roxboro Street (SR 501), and West Geer Street. The subject property is located within 3,000 feet of an Amtrak Rail Line and two (2) Norfolk Southern Rail Lines. There are no civil airports within five (5) miles of the subject property or military airfields within fifteen (15) miles of the subject property. The projected 10-year DNL for the subject property is 71.7 decibels (dB), which is considered "normally unacceptable". A copy of the completed noise survey is provided in Appendix O. Recommendations are listed in Section 11.0 of this report.

8.11 Nuisances and Hazards

No "nuisances" or "hazards" were observed at the subject property or surrounding properties during the site inspection.

9.0 FINDINGS

This Phase I ESA was prepared in accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process Designation: E 1527-05, 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries: Final Rule, U.S. Housing and Urban Development (HUD) Multifamily Housing Accelerated Processing Guide, and accepted Phase I ESA industry standards. This assessment has revealed the following findings based on the subject property inspection, interviews, and review of available records:

OBSERVED CONDITIONS	ON-SITE	ADJACENT
STANDARD ENVIRONMENTAL RECORDS REVIEW	No	Yes
UNREGULATED UNDERGROUND STORAGE TANK(S) (UST)	No	No
PAST INDUSTRIAL/DETRIMENTAL OPERATIONS	No	Yes
VAPOR ENCROACHMENT CONDITION	No	No
STORED HAZARDOUS MATERIALS	Yes	NA
POLYCHLORINATED BIPHENYLS (PCBS)	No	NA
ABOVEGROUND STORAGE TANK(S) (AST)	No	No
DUMPING, LANDFILLS	Yes	No
HAZARDOUS RUN-OFF	No	No
ASBESTOS-CONTAINING MATERIALS	Yes	NA
LEAD-BASED PAINT	Yes	NA
FLOOD ZONE	No	No
WETLANDS	No	No
NOISE	Yes	NA
OTHER	No	No

NA = Not Applicable

10.0 OPINION

Based on the findings of this Phase I ESA, the following environmental concerns were identified in connection with the subject property:

- Asbestos Containing Materials (ACMs)
  The facility was constructed in 1926, during a time of asbestos-containing building material usage. Mr. Ryan Burnett, a State of North Carolina licensed Asbestos Inspector (NC License #12661) with Get the Lead Out, LLC, conducted a pre-demolition asbestos survey at the subject property on November 17, 2010. Sampled materials included ceiling texture material, ceiling tiles, sheetrock, roofing materials, and vinyl flooring materials and associated mastics. An asbestos-containing material is defined as containing greater than 1% asbestos. ACMs were identified during the asbestos survey and the results are detailed in Section 8.1.

- Lead-Based Paint (LBP)
  The facility was constructed in 1926, prior to the 1978 ban on lead-based paint (LBP). Kevin Joseph and Don Suleski, North Caronia licensed Lead-Based Paint Risk Assessors (license #120226 and 110214, respectively) with Get the Lead Out, LLC, conducted a lead-based paint inspection at the subject property on November 17 and November 19, 2010. The lead paint inspection was completed utilizing an X-ray fluorescence (XRF) lead paint analyzer, which quickly, accurately, and non-destructively measures the concentration of lead-based paint on surfaces. Sampled surfaces consisted of walls, doors, and associated framework, windows and associated framework, ceilings, baseboards, miscellaneous components and exterior components. The XRF readings were compared to the EPA and United States Department of Housing and Urban Development lead in paint standard of 1.0 mg/cm^2. The results of this inspection indicate that some of the sampled components contained lead-based paint. Lead-based paint was identified on exterior concrete and brick walls, the exterior door, window and door casings and trim, interior corner trim, laminate ceilings, select interior walls, and stair stringers. Paint conditions ranged from intact to poor.

- Noise
  The subject property is located within 1,000 feet of North Mangum Street (SR 15), North Roxboro Street (SR 501), and West Geer Street. The subject property is located within 3,000 feet of an Amtrak Rail Line and two (2) Norfolk Southern Rail Lines. There are no civil airports within five (5) miles of the subject property or military airfields within fifteen (15) miles of the subject property. The projected 10-year DNL for the subject property is 71.7 dB, which is considered "normally unacceptable".

Based on the findings of this Phase I ESA, the following observed conditions are not considered a REC or an environmental concern to the subject property:

- Past Detrimental Land Use/Vicinity LUST/USTs/SPILLS – 800 North Mangum Street
  A filling station and three (3) associated USTs are depicted to the northeast and down-gradient of the subject property at 800 North Mangum Street in the 1937 Sanborn map. A dry cleaning and laundry facility is also listed at the same location in the 1937 and 1950 Sanborn maps. City directories confirm the existence of dry cleaning and filling station activities at this location

  American Textiles Services (also listed as Johnson Forrester, Inc. and Helen Farthing), located at 800 North Mangum Street, is listed as a LUST and SPILLS incident and twice as a UST facility involving a total of eight (8) USTs. Johnson Forrester, Inc. was listed as a UST facility involving one (1) 5,000-gallon Stoddard solvent UST installed on July 5, 1976, one (1) 10,000-gallon fuel oil UST installed on July 5, 1978, and one (1) 10,000-gallon gasoline/gasoline mixture UST, one (1) 7,500-gallon gasoline/gasoline mixture UST, and one (1) 5,000-gallon gasoline/gasoline mixture UST, all installed on December 5, 1956. According to the Environmental FirstSearch Report, the three (3) USTs installed in 1956 were permanently closed on December 31, 1988 and the two (2) USTs installed in 1976 and 1978 were permanently closed on January 17, 1994. Helen Farthing was also listed as a UST facility involving three (3) 1,000-gallon mineral spirit USTs installed on January 1, 1964. According to the Environmental FirstSearch Report, the three (3) mineral spirit USTs were permanently closed on July 13, 1994. American Textiles Services was listed as a LUST incident involving releases of Stoddard solvent and diesel fuel on March 21, 1994 associated with the above referenced USTs. According to the Environmental FirstSearch Report, the leak was reported to cause both soil and groundwater contamination and the risk of the incident was classified as low. The LUST incident was reported to involve two (2) separate sites at the same location and is listed as "current record".

  D3G performed a file review of the American Textiles Services LUST and SPILLS incident and UST facilities at the North Carolina Department of Environment and Natural Resources (NCDENR) Raleigh Field Office on November 9, 2010. According to a Level I Environmental Property Assessment performed by SITEX Environmental, Inc. (SITEX) on November 3, 1992, one (1) 10,000-gallon fuel tank (installed in 1978) and one (1) 7,500-gallon and one (1) 5,000-gallon petroleum solvent tanks (installed in 1976) were removed from the property on December 31, 1988. The report also noted that three (3) additional USTs were reported to have been present on-site; however, there was no evidence of any currently active USTs during the SITEX site inspection. SITEX recommended contacting the company that removed the USTs in December 1998 to determine whether there was evidence of soil or groundwater contamination; however, no documentation regarding the three (3) USTs was provided during the file review. SITEX also noted that eight (8) drums containing mineral spirits and solvents were observed to the north of the building and were not observed to be leaking. However, soils beneath the drums appeared to be stained as a result of previous drum storage activities. SITEX collected one (1) soil sample in the vicinity of the drum storage area, which was analyzed for High Fraction Hydrocarbons, Low

Fraction Hydrocarbons, Halogenated Volatile Organics, and Aromatic Volatile Organics. Elevated levels of High Fraction Hydrocarbons (identified as mineral spirits), benzene, toluene, ethylbenzene, and xylenes (BTEX), and tetrachloroethane (TCE) were identified. In addition, SITEX identified Farthing Fabricare as a RCRA small quantity generator of hazardous waste (EPA ID #982165102); however, according to the EPA Facility Registry System (FRS) accessed at http://www.epa.gov/enviro/html/fii/fii_query_java.html, the adjacent facility is inactive as of January 4, 2006. In addition, according to the EPA Enforcement and Compliance History Online (ECHO) accessed at http://www.epa-echo.gov/, the adjacent facility was last inspected on July 16, 1992 and is listed as being compliant as of November 9, 2010.

D3G was provided a Tank Closure Report prepared by ENSCI Engineering Group, P.A. (ENSCI) dated May 6, 1994 for review. On March 21, 1994, ENSCI removed one (1) 8,000-gallon Stoddard solvent UST and one (1) 10,000-gallon diesel fuel UST. Groundwater samples taken below the Stoddard UST revealed volatile aromatic and semi-volatile compounds at low concentrations. The tank was observed to be in good physical condition upon removal, suggesting contamination from spillage and overfill. Although groundwater was impacted, the location of the former Stoddard solvent UST is approximately 0.06 miles down-gradient from the subject property. Additionally, no detectable levels of volatile or semi-volatile compounds were found in groundwater samples at the former diesel UST location, which is approximately 0.08 miles down-gradient from the subject property. Contaminated soil was stockpiled on-site for future disposal. According to a letter produced by the NCDENR dated August 11, 1994, confirmation of the final destination of any contaminated soils must be submitted prior to closure. ENSCI advised in a letter dated August 23, 1994 that approximately fifty (50) cubic yards of contaminated soils were excavated and would be disposed of along with an additional approximately twelve (12) cubic yards of contaminated soil, which were excavated during the removal of three (3) USTs formerly located inside the building at the property.

D3G was provided a Tank Closure Report prepared by ENSCI dated August 25, 1994 for review. On July 12, 1994, ENSCI removed three (3) 550-gallon Stoddard solvent USTs. Soil samples were analyzed in the area of the USTs and elevated levels of petroleum hydrocarbons were found. However, groundwater was not impacted during the removal, contamination was noted as soil only, and the location of the former three (3) Stoddard solvent USTs is approximately 0.05 miles down-gradient from the subject property. In addition, as previously discussed, approximately twelve (12) cubic yards of contaminated soil was excavated for future disposal.

O'Brien and Gere Technical Services, Inc. (OGTS) was hired in March of 1995 to excavate contaminated soils on the property. Approximately forty-five (45) cubic yards of contaminated soils containing elevated concentrations of Stoddard solvent were removed. In addition, an analysis of water from a monitoring well located in the center of the soil contamination indicated no petroleum constituents in the groundwater.

On March 18, 1996, the NCDENR sent a letter requiring a Comprehensive Site Assessment and Corrective Action Report due to the elevated levels of chemicals in the groundwater. The owner of the property passed away and the assessment was never completed. According to an interview with Mr. Edward Stewart, President and CEO of UDI Community Development Corporation and the Current Landowner, the remediation activities at the site were completed prior to his purchase of the property and following the death of the Previous Landowner in 1995. Based on the listed distances to the former UST locations and topographic relationship, the adjacent facility is not suspected to present environmental concerns to the subject property. Therefore a VEC does not exist or is not likely to exist at the subject property that is associated with the adjacent facility.

- Vicinity LUST/SPILLS – 120 Broadway Street
  Equipment Maintenance, located 0.09 miles to the west and topographically up-gradient from the subject property at 120 Broadway Street, is listed as a LUST and SPILLS incident and UST facility involving one (1) 550-gallon oil mixture UST installed on September 21, 1989. According to the Environmental FirstSearch Report, a release of oil was reported on May 13, 1996, on the same date the tank was removed. The risk of the incident was classified as low, and the leak was reported to cause soil contamination only. The case was closed on August 7, 2000. The subject property is located approximately 490 feet from the facility, which is located outside the critical distance (30 feet) for petroleum contaminated soil with regards to Vapor Encroachment. Based on the distance and current regulatory status, the facility is not suspected to present environmental concerns to the subject property. Therefore, a VEC does not exist or is not likely to exist at the subject property that is associated with the vicinity facility.

- Stored Hazardous Materials
  No bulk storage of hazardous materials or petroleum products was identified at the subject property. However, one (1) 5-gallon Kerosene container and one (1) bag of Imperial QT Spray Wall Texture were observed in the rear portion of the subject property structure. None of the stored materials were observed to be leaking or to have had signs of major spillage. No floor drains or other potential receptors for the release of hazardous materials were observed within the areas of material storage. The on-site chemicals are commercially available, stored in limited quantities, and are not believed to present an environmental concern to the subject property.

- Dumped Debris
  Various dumped debris (construction debris, household trash, etc.) was observed in the vicinity of the subject property structure during the site inspection. The dumped debris was observed in *de minimis* amounts and is considered non-hazardous in nature. Based on the non-hazardous nature and *de minimis* amounts, the on-site dumped debris is not suspected to present an environmental concern to the environmental integrity of the subject property. However, the dumped debris should be properly disposed of in accordance with local, state, and federal regulations prior to site development.

11.0 CONCLUSIONS

Dominion Due Diligence Group performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Practice E 1527-05 of the Proposed Mixed Use Facility located at 727 North Mangum Street in Durham, Durham County, North Carolina (subject property). Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the subject property.

D3G has performed a Phase I ESA at the subject property. Based on the identified environmental concerns discussed in Section 10.0, D3G recommends the following:

- Asbestos Containing Materials (ACMs)
  D3G recommends removal of the identified ACMs by a licensed asbestos abatement contractor in accordance with applicable local, state and federal guidelines prior to demolition activities.

- Lead-Based Paint (LBP)
  According to information provided by the developer, the front building façade is to remain and the remainder of the structure will be demolished. Per 24 CFR 35 – Subpart G 35.630, full abatement of lead-based paint hazards is required. D3G recommends that any lead-based paint identified on the wall that is to remain be removed via chemical stripping or component removal. Components identified as containing lead in *any concentration* are required be handled in accordance with 29 CFR 1926.62, the OSHA "Lead Exposure in Construction" Standard (OSHA does not define LBP). In addition, all generated debris containing lead-based paint is to be appropriately disposed of in accordance with applicable EPA RCRA requirements.

- Noise
  Pursuant to 24 CFR 51.101(a)(3), the composite DNL 71.7 dB is "normally unacceptable". The requirements set out in Section 51.104(a) are designated to insure that interior levels do not exceed the established 45 dB level. The calculated projected exterior noise value is 71.7 dB; therefore, the combined wall, window and door STC ratings will need to reduce the interior noise level by at least 26.7 dB.

12.0 DEVIATIONS

There are no deviations from the ASTM standard Phase I ESA except for those outlined in Section 2.4 of this report.

13.0 ADDITIONAL SERVICES

No additional services were contracted between the User and D3G.

14.0 REFERENCE MATERIALS

- City of Durham Fire and Health Departments
- Durham County Assessor
- Web Soil Survey accessed at http://websoilsurvey.nrcs.usda.gov/app/
- USGS Topographic Quadrangles – *Northwest Durham, North Carolina* - 2010 and *Southwest Durham, North Carolina* – 2010
- *City of Durham Topographic Map* - 2010
- Environmental FirstSearch ™ Report, dated November 1, 2010
- FEMA Flood Insurance Rate Map (FIRM) #372008-3100J, dated May 2, 2006
- USFWS National Wetlands Inventory map accessed at http://www.fws.gov/wetlands/Data/Mapper.html
- Delorme Street Atlas USA® 2009
- Google Earth and USGS EarthExplorer – aerial photographs
- EPA Radon Map
- CBRA information: http://www.fema.gov/business/nfip/cbrs/cbrs.shtm
- The U.S. Department of the Interior Threatened and Endangered Species System
- Environmental Protection Agency Office of Water, Office of Groundwater and Drinking Water National Summary of Sole Source Aquifer Designations. This document is accessible at http://www.epa.gov
- The National Register of Historic Places accessed at http://www.nps.gov/nr/
- *A Smaller Intrusion,* by Anthony J. Buonicore, P.E. published in the May 2009 Issue of Pollution Engineering magazine
- North Carolina Division of Coastal Management accessed at http://dcm2.ehnr.state.nc.us/

15.0 SIGNATURE OF ENVIRONMENTAL PERSONNEL

Data presented in this report is factual to the best of our knowledge. Available sources of data were comprehensively researched to provide a complete Phase I ESA of the subject property. The Phase I ESA was prepared in accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (Designation E 1527-05), 40 CFR Part 312 Standards and Practices for All Appropriate Inquiry: Final Rule, and portions of the 2009 U.S. Department of HUD MAP Guide protocols. See D3G's HUD Form 4128 and Environmental Field Data Sheets for the remaining HUD MAP report protocols.

D3G understands that this Phase I ESA will be used by the User to document to the U.S. Department of HUD that the MAP Lender's application for FHA multifamily mortgage insurance was prepared and reviewed in accordance with HUD MAP requirements. D3G certifies that the review was in accordance with the HUD MAP requirements applicable on the date of the review and that D3G has no financial interest or family relationship with the officers, directors, stockholders or partners of the Borrower, the general contractor, any subcontractors, the buyer or seller of the proposed property or engage in any business that might present a conflict of interest.

D3G is employed under contract for this specific assignment and has no other side deals, agreements, or financial considerations with the MAP Lender or others in connection with this transaction.

Travis Ayers
Project Manager

Signature

Kimberly L. Dingledine
Environmental Professional

Signature

16.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

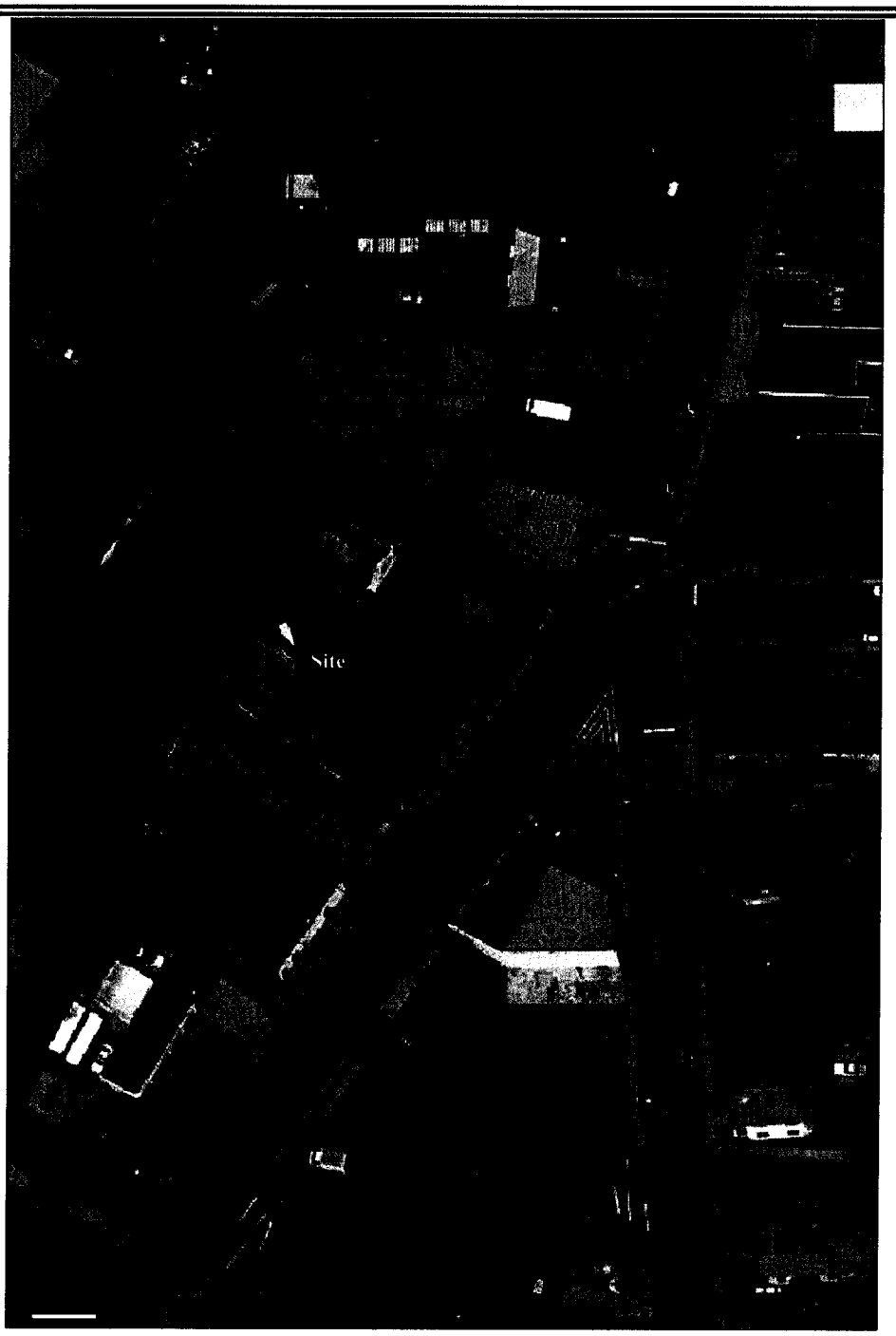
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Warning: Title 18 U.S.C. 1001, provides in part that whoever knowingly and willfully makes or uses a document containing any false, fictitious, or fraudulent statement or entry, in any manner in the jurisdiction of any department of agency of the United States, shall be fined not more than $ 10,000 or imprisoned for not more than five years or both.

17.0 APPENDICES

Appendix A:	Site (Vicinity) Maps
Appendix B:	Site Plan
Appendix C:	Site Photographs
Appendix D:	Historical Research Documents
Appendix E:	Regulatory Records Documentation
Appendix F:	Interview Documentation
Appendix G:	Special Contractual Conditions Between User and Environmental Professional
Appendix H:	Qualifications of the Environmental Professionals
Appendix I:	Certificate of Liability Insurance
Appendix J:	SHPO and THPO Correspondence and the National Register of Historic Places
Appendix K:	The U.S. Department of the Interior Threatened and Endangered Species System
Appendix L:	Environmental Protection Agency Office of Water, Office of Groundwater and Drinking Water National Summary of Sole Source Aquifer Designations
Appendix M:	HUD Environmental Questionnaire
Appendix N:	HUD Form 4128 and Environmental Field Data Sheets
Appendix O:	HUD Noise Worksheets
Appendix P:	North Carolina Wild and Scenic Rivers List
Appendix Q:	Asbestos Inspection Report
Appendix R:	Lead-Based Paint Inspection Report
Appendix S:	NCDENR File Review Documentation



Appendix A Tax Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Parcel #104905*	**DOMINION DUE DILIGENCE GROUP**

TAX ADMINISTRATION
PROPERTY REPORT

Property Details Sales Map

Property Owner
UDI COMMUNITY DEVELOPMENT
CORPORATION

Owner's Mailing Address
P O BOX 1349
DURHAM, NC 27702-1349

Property Location Address
727 N MANGUM ST

Administrative Data

Parcel Ref No.	104905
PIN	0831-05-09-8342
Account No.	8090932
Tax District	CNTY-DRHM/CITY-DURHAM
Land Use Code	450
Land Use Desc	COM/ RETAIL SERVICES
Subdiv Code	0000
Subdiv Desc	N/A - NO SUBDIVISION
Neighborhood	070BI

Administrative Data

Legal Desc	PROP-CITY OF DURHAM
Deed Bk/Pg	006363 / 000011
Plat Bk/Pg	000185 / 000099

Sales Information
Only Sales Data **After January 1, 2006** Is Displayed

Grantor	
Sold Date	0--0
Sold Amount $	0

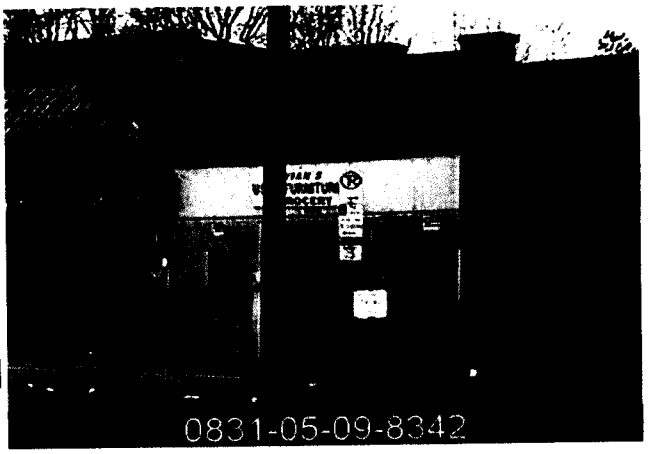
Valuation Information
Assessed Value (Jan 1 2010)$ 57,556

This ad valorem appraisal represents assessors' opinion of market value, defined by NCGS 105-283, retrospective to January1, 2008, which is the effective date of the county's most current General Reappraisal.

Improvement Detail
(1st Major Improvement on Subject Parcel)

Year Built	1926
Built Use/Style	RETAIL STORES
Current Use	RETAIL STORES
* Percent Complete	100
Heated Area (S/F)	1,680
** Bathroom(s)	0 Full Bath(s) 0 Half Bath(s)
** Bedroom(s)	0
Fireplace (Y/N)	N
Basement (Y/N)	N
Attached Garage (Y/N)	N
Multiple Improvements	001

* Note - As of January 1
* * Note - Bathroom(s), Bedroom(s), shown for description only



Land Supplemental

Map Acres	0.032
Tax District Note	
Present-Use Info	

Improvement Valuation (1st Major Improvement on Subject Parcel)

Improvement Assessed Value $

50,587

Land Value Detail (Effective Date January 1, 2008, date of County's most recent General Reappraisal)

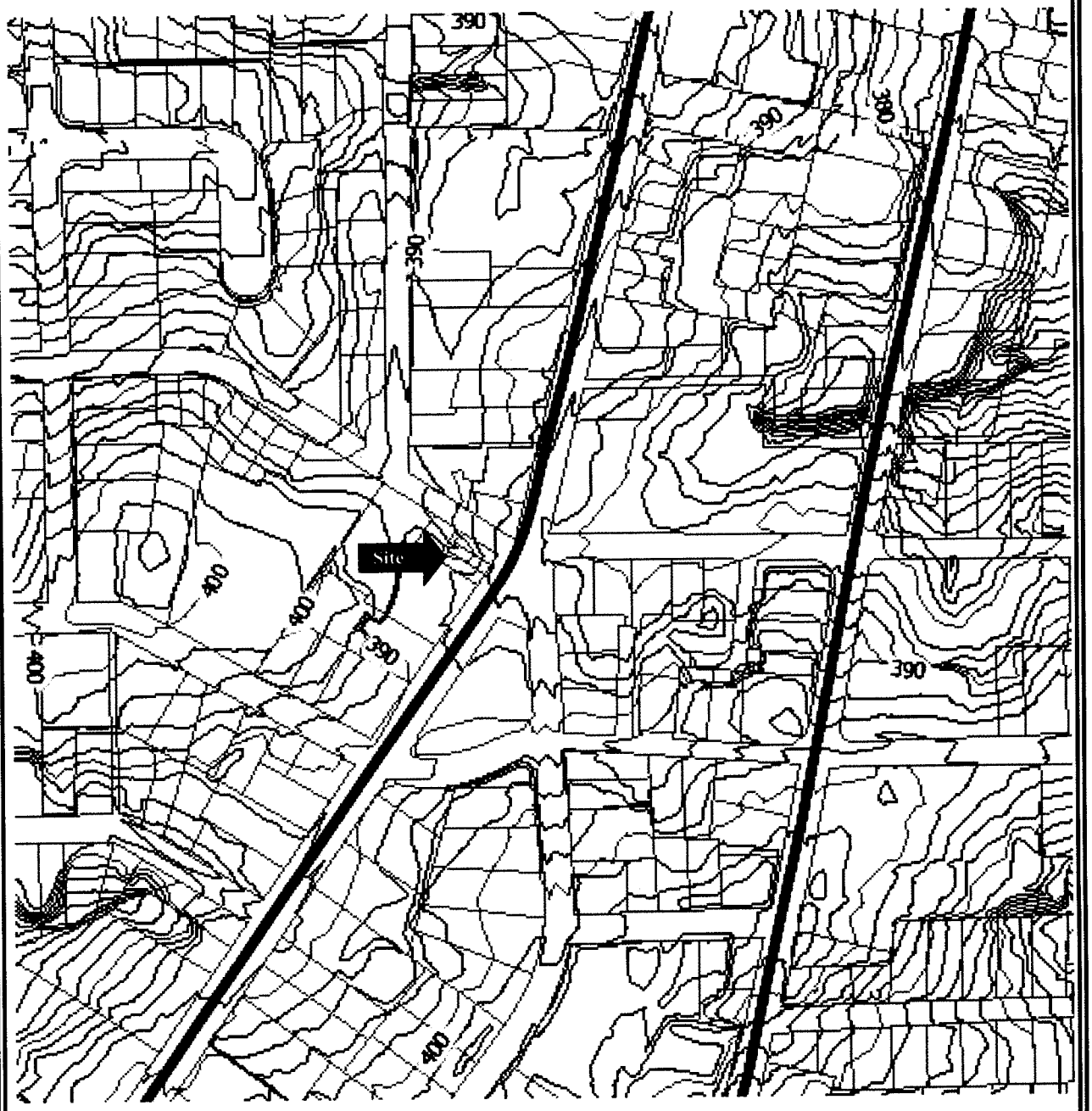
Land Market Value (LMV) $	Land Present-Use Value (PUV) $ **	Land Total Assessed Value $
6,969	6,969	6,969

** Note: If PUV equal LMV then parcel *has not* qualified for present use program

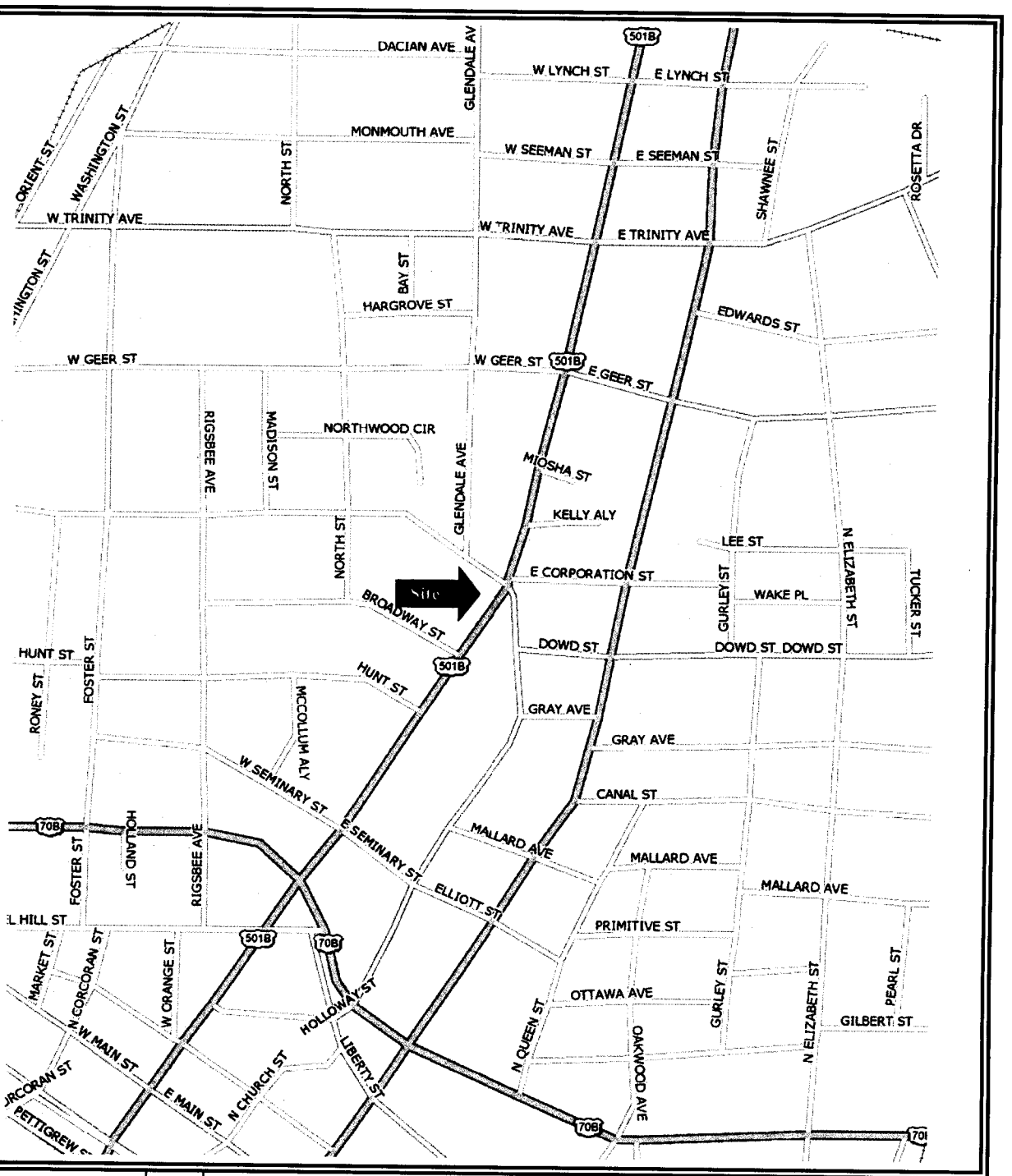
Data Disclaimer: All data shown here is from other primary data sources and is public information. Users of this data are hereby notified that the aforementioned public information sources should be consulted for verification of the information contained on this website. While efforts have been made to use the most current and accurate data, Durham County, NC and Data Providers assume no legal responsibility for the use of the information contained herein.

Please direct any questions or comments about the data displayed here to tax_assessor@co.durham.nc.us

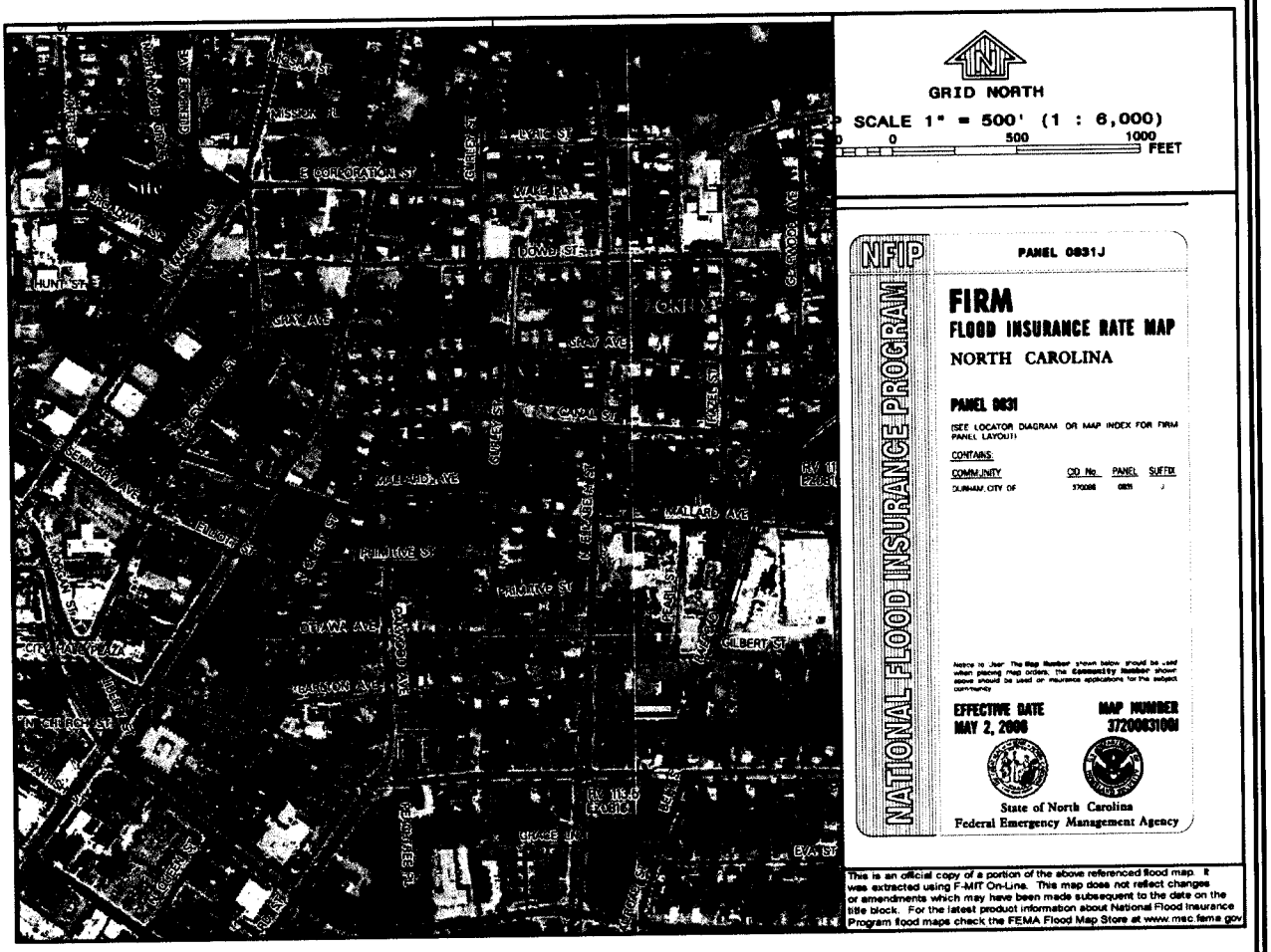
Appendix A Site Topographic Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Northwest Durham, North Carolina - 2010* *Southwest Durham, North Carolina - 2010*	**DOMINION DUE DILIGENCE GROUP**



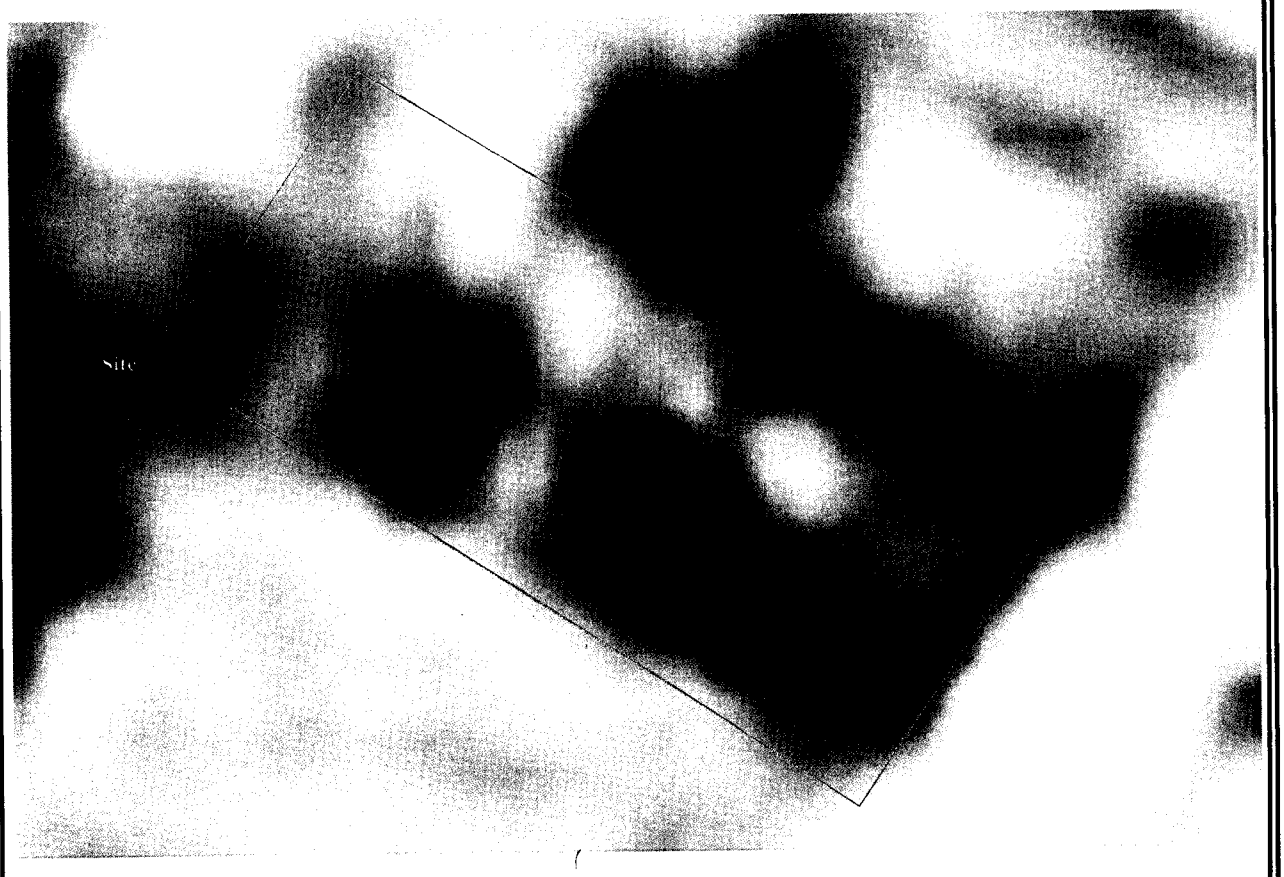
Appendix A Site Topographic Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *City of Durham Topographic Map - 2010*	**DOMINION DUE DILIGENCE GROUP**



Appendix A Site Locator Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina	**DOMINION DUE DILIGENCE GROUP**



Appendix A FEMA Flood Insurance Rate Map	↑ N	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Community Panel #372008-3100J* *dated May 2, 2006*	**DOMINION DUE DILIGENCE GROUP**



Appendix A Site Soils Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *http://websoilsurvey.nrcs.usda.gov/app/*	**DOMINION DUE DILIGENCE GROUP**

U.S. Fish and Wildlife Service

National Wetlands Inventory

Oct 29, 2010

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

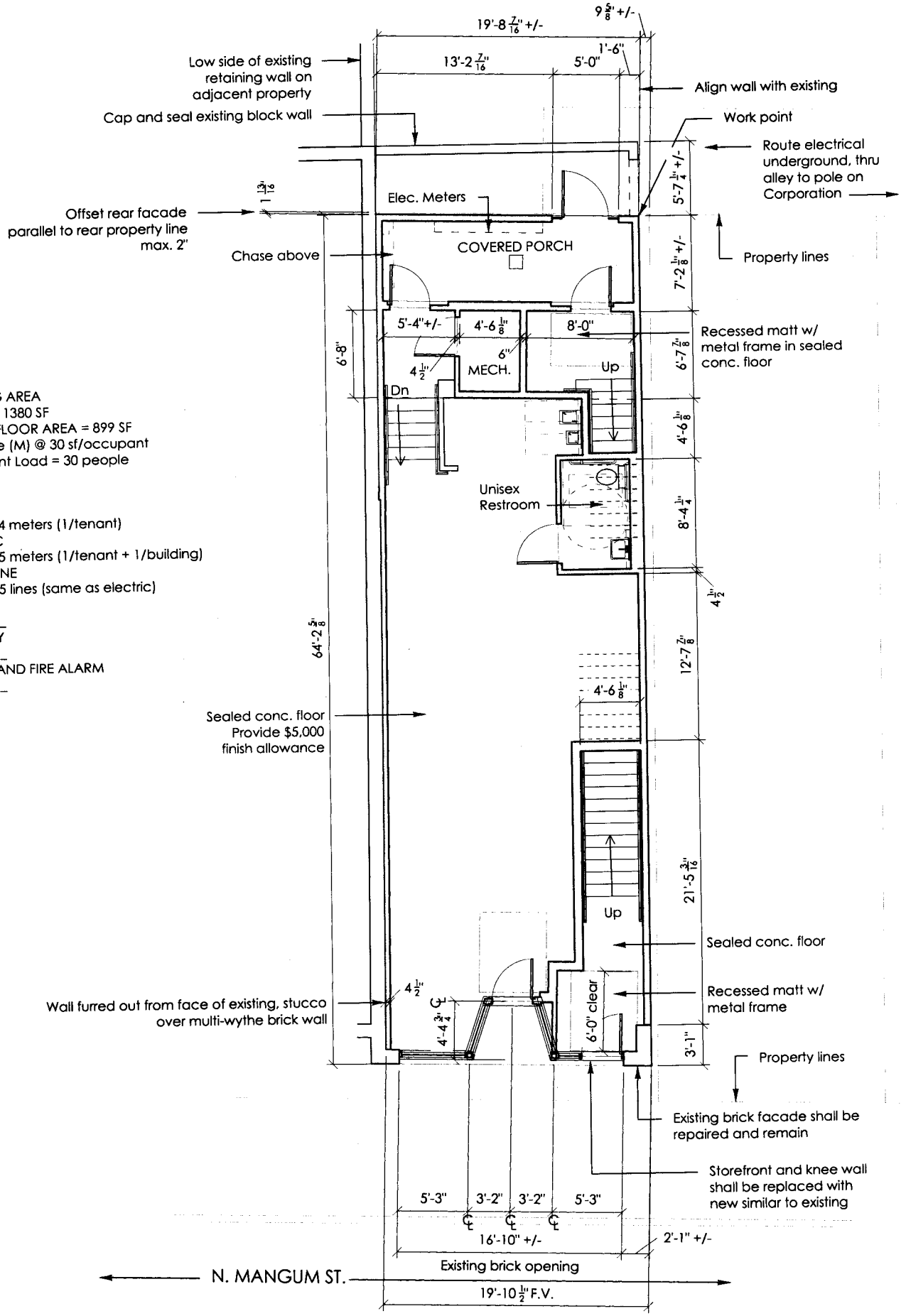
User Remarks:

Appendix A National Wetland Inventory Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *USFWS National Map Viewer*	**DOMINION DUE DILIGENCE GROUP**

APPENDIX B

Site Plan

Appendix B Site Plan	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina	**DOMINION DUE DILIGENCE GROUP**



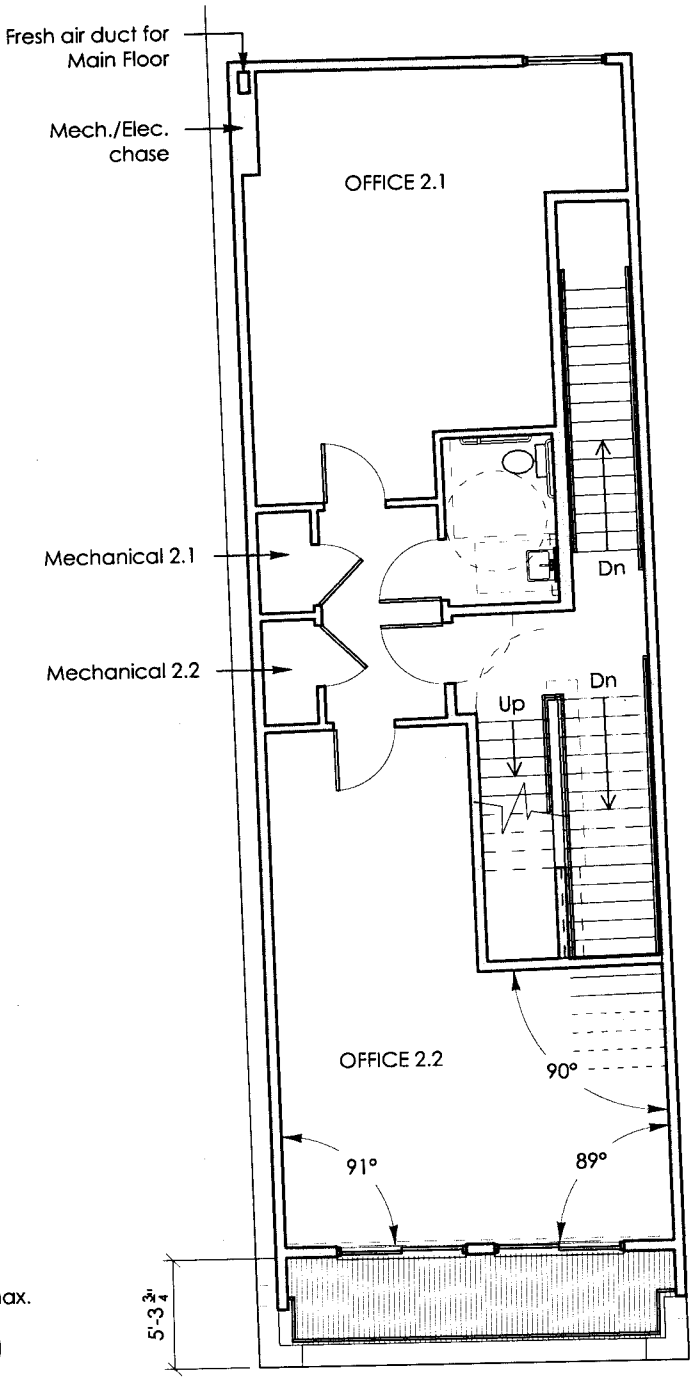
BUILDING AREA
GROSS = 1380 SF
TENANT FLOOR AREA = 899 SF
Retail Use (M) @ 30 sf/occupant
Occupant Load = 30 people

WATER
4 meters (1/tenant)
ELECTRIC
5 meters (1/tenant + 1/building)
TELEPHONE
5 lines (same as electric)
CABLE
SECURITY
SMOKE AND FIRE ALARM

1 / A0.1 **First Floor Plan**

1/8"=1'-0"

N



SECOND FLOOR
Business Use (B)
Gross Floor Area = 976 SF
Business Use (B) @100gsf/occup. = 10 occupants max.
TENANT 2.1 FLOOR AREA = 352 SF
TENANT 2.2 FLOOR AREA = 422 SF + 89 SF (Balcony)

SHELL FINISHES
Floors
- Stained conc. - stair treads and landings
- Vinyl Tiles (Marmoleum) - Toilet
- Carpet Tiles - Offices and Corridor

Walls
- Painted GWB - 1 color

Trim
- Painted wood - 1 color

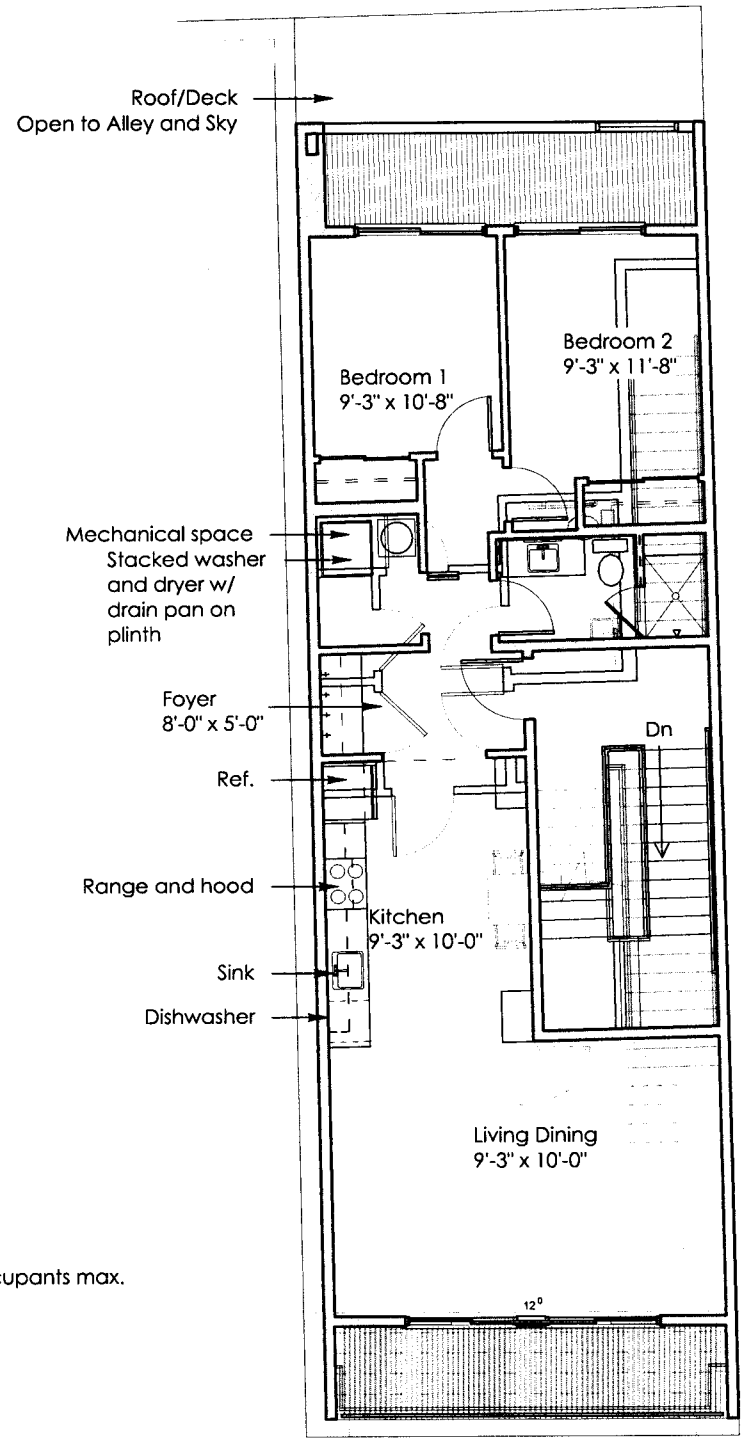
Ceilings
- Ht.~11'-0", GWB, Smooth painted - 1 color

2
A0.1

Second Floor Plan

1/8"=1'-0"

N



THIRD FLOOR
Residential Use (R-3)
Gross Floor Area = 1326 sf - 187 sf =
Max. Occupancy (R) = 200gsf/occup. = 10 occupants max.
TENANT 3.0 FLOOR AREA = 352 SF

APARTMENT FINISHES
Floors
Engineered wood - Foyer, Living/Dining
Sheet vinyl (Marmoleum) - Kitchen
Carpet Tile - Bedrooms
Walls
Painted GWB - 3 colors
Trim
Painted wood
Ceilings
Painted GWB - 1 color

3
A0.1

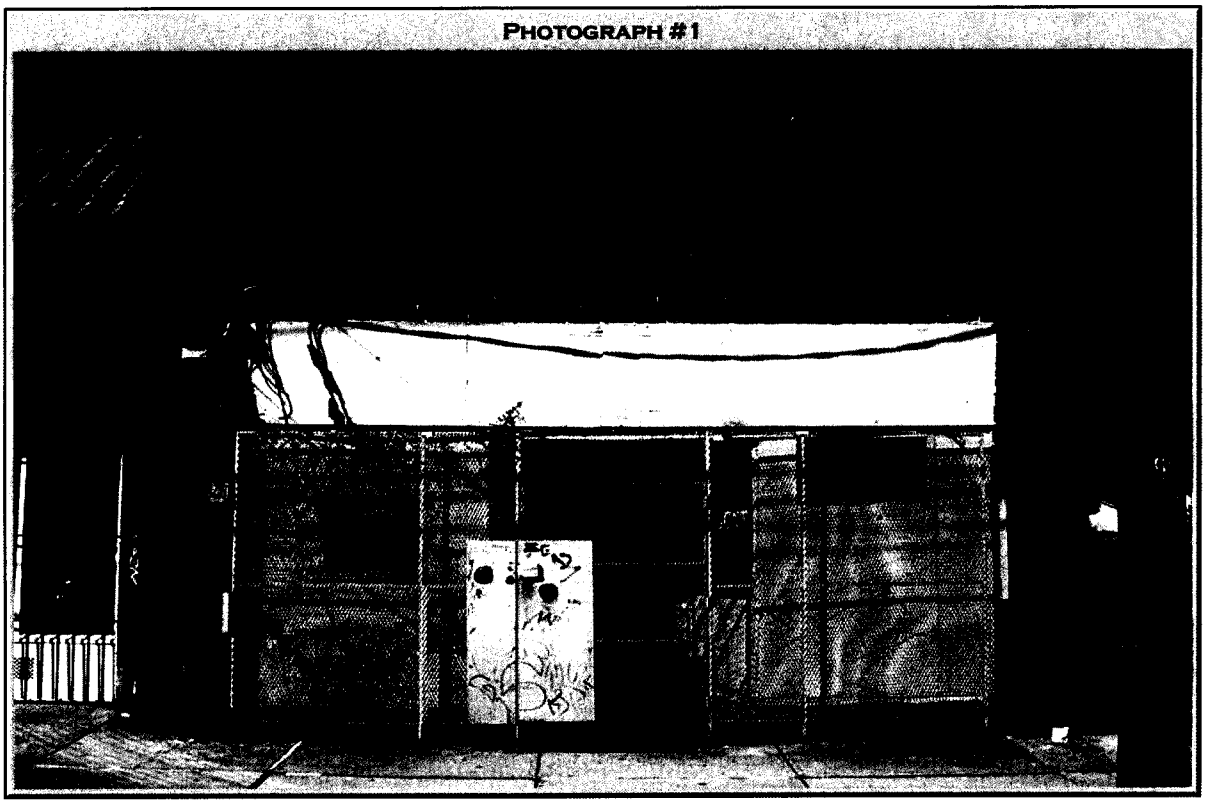
Third Floor Plan - Two Bed Apt.

1/8"=1'-0"

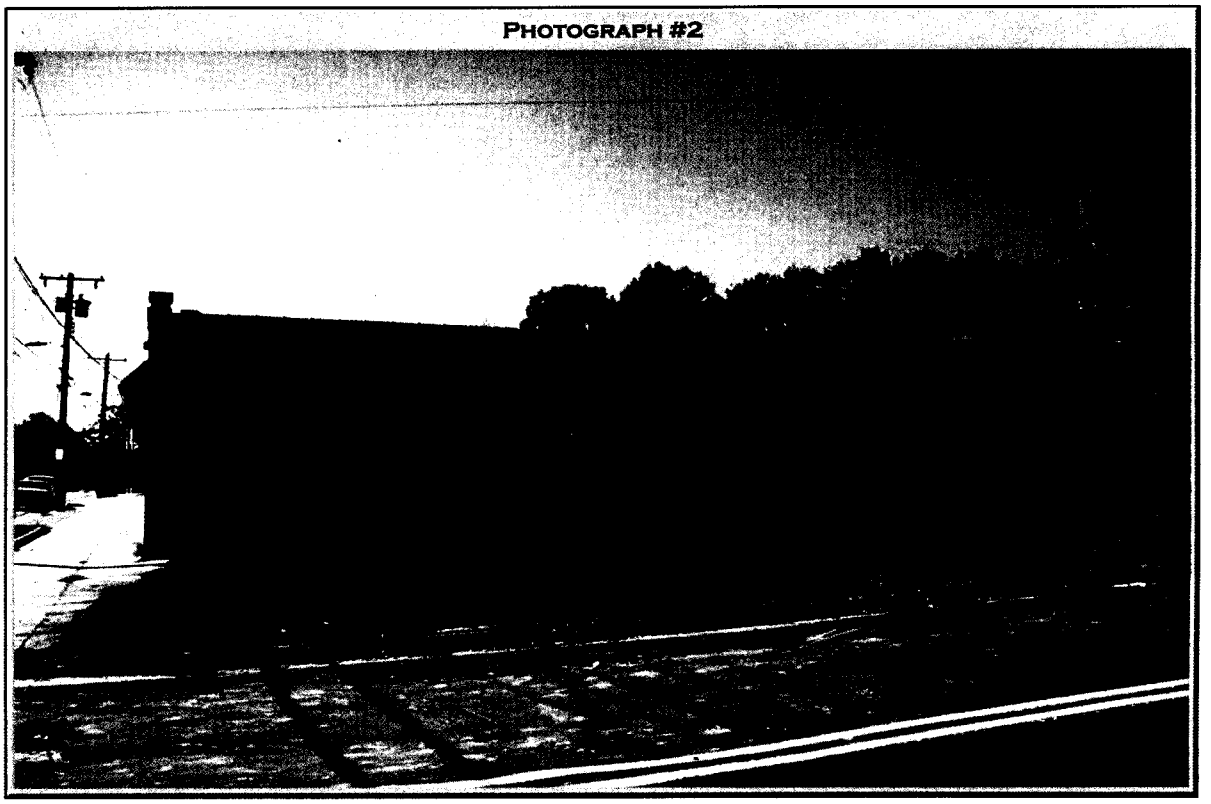
N

APPENDIX C

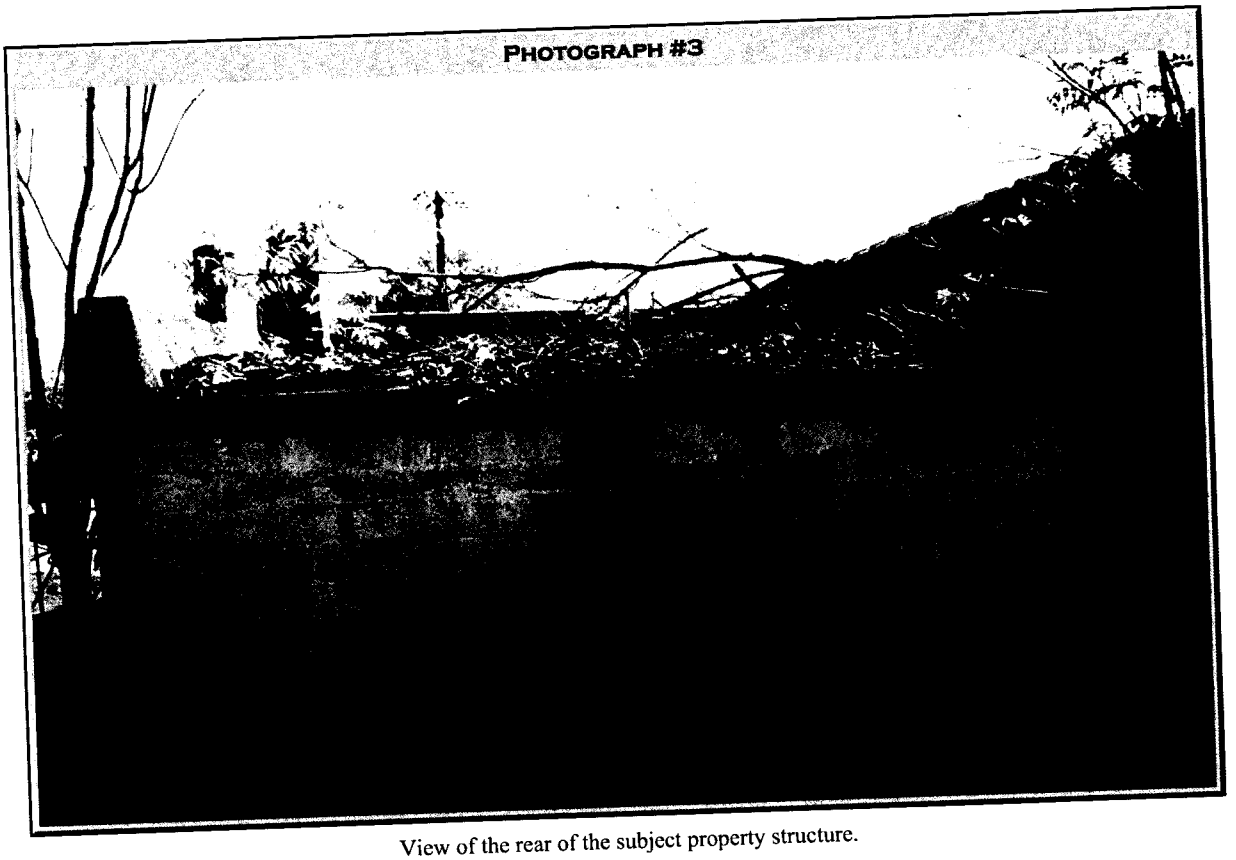
Site Photographs



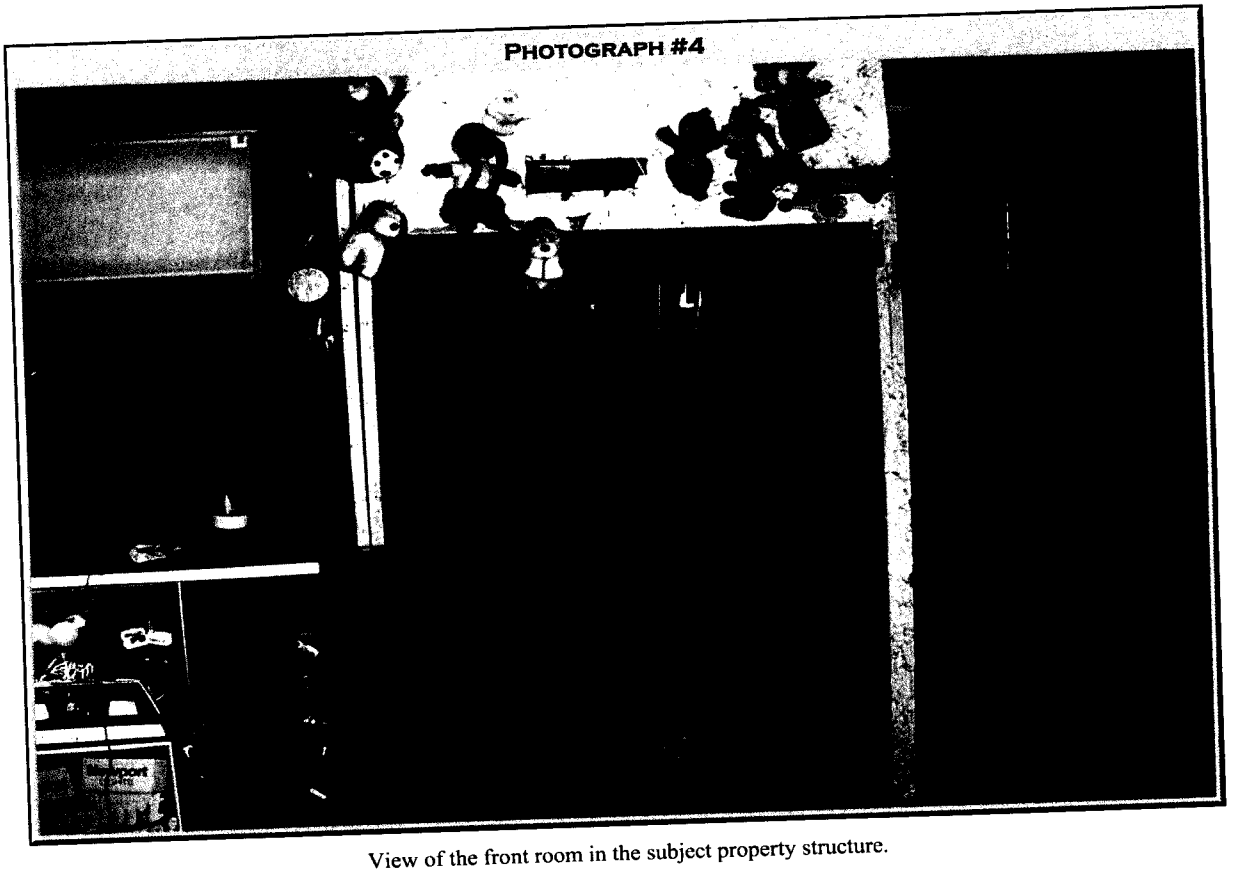
View of the subject property structure entrance from North Mangum Street.



View of the subject property structure form West Corporation Street.

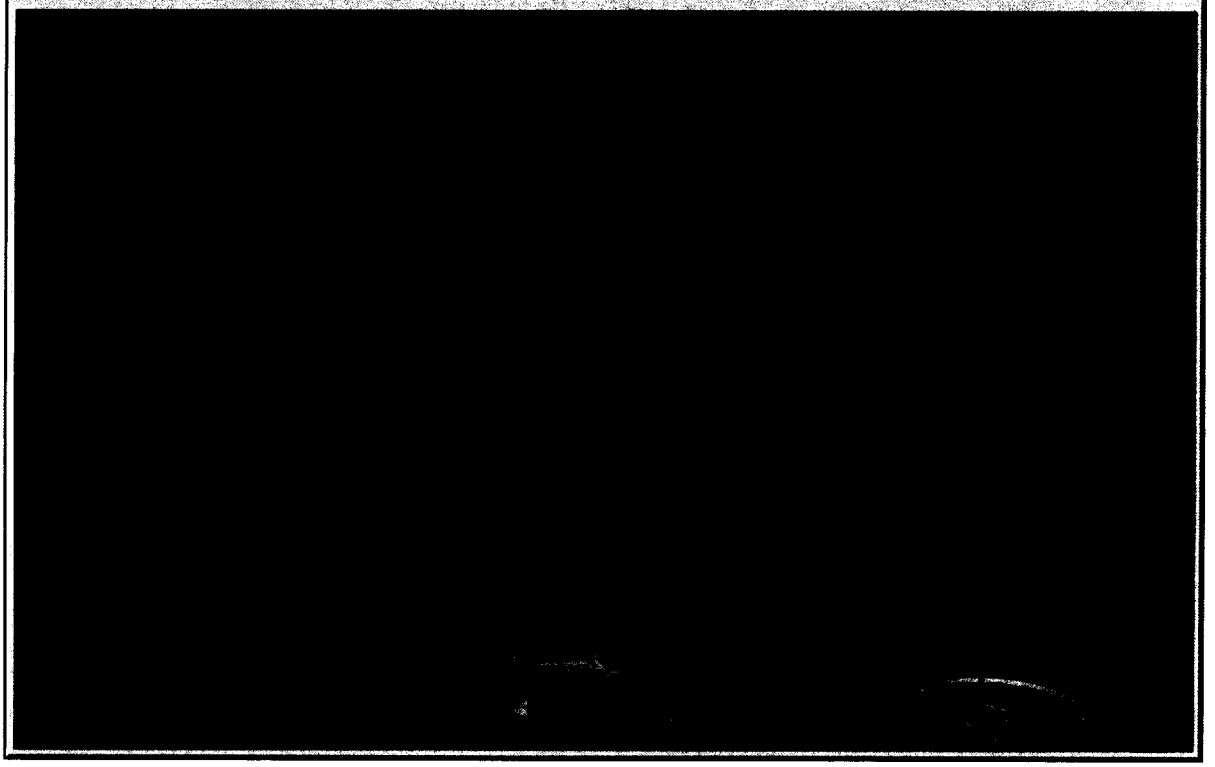


View of the rear of the subject property structure.



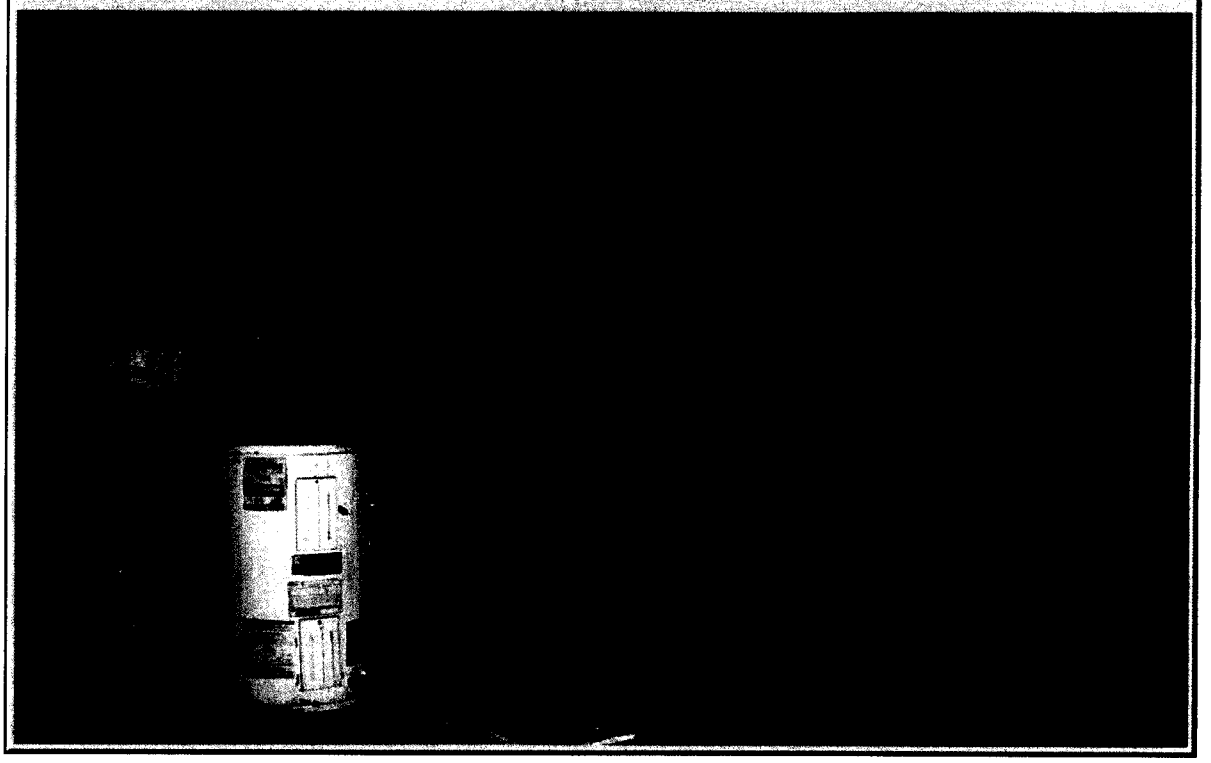
View of the front room in the subject property structure.

PHOTOGRAPH #5



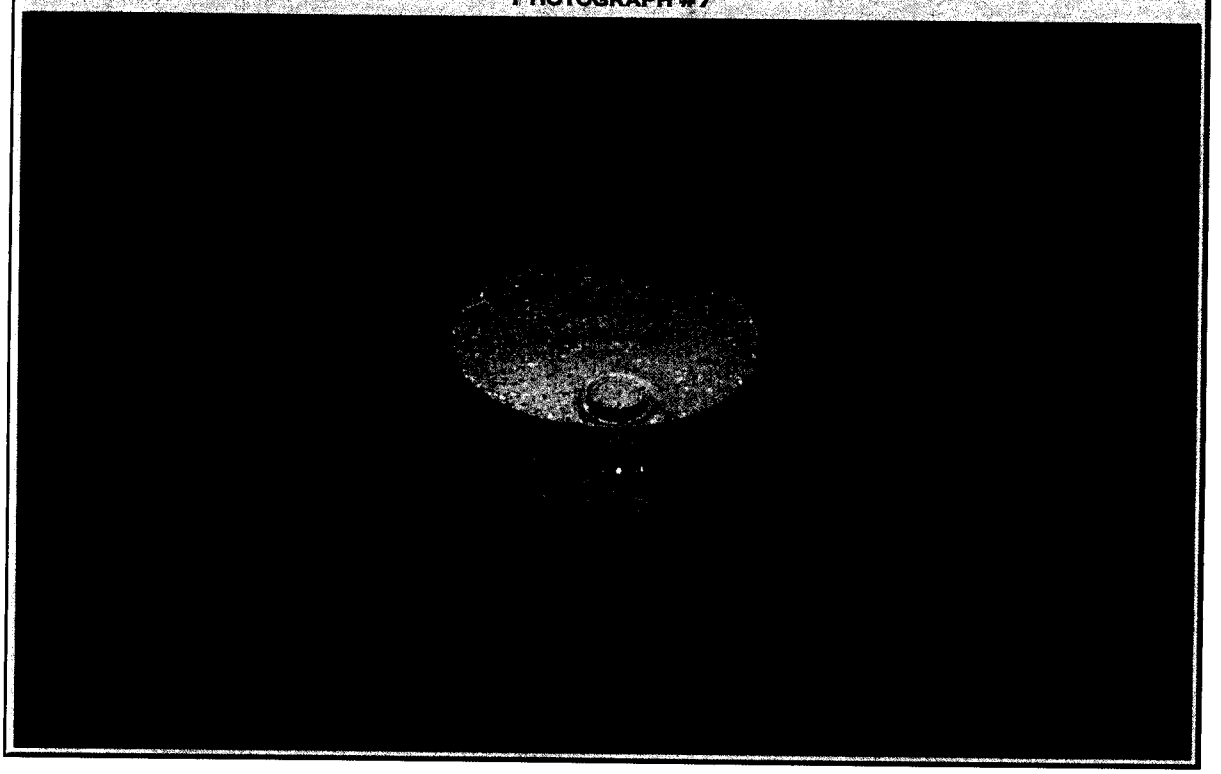
View of the back room in the subject property structure.

PHOTOGRAPH #6



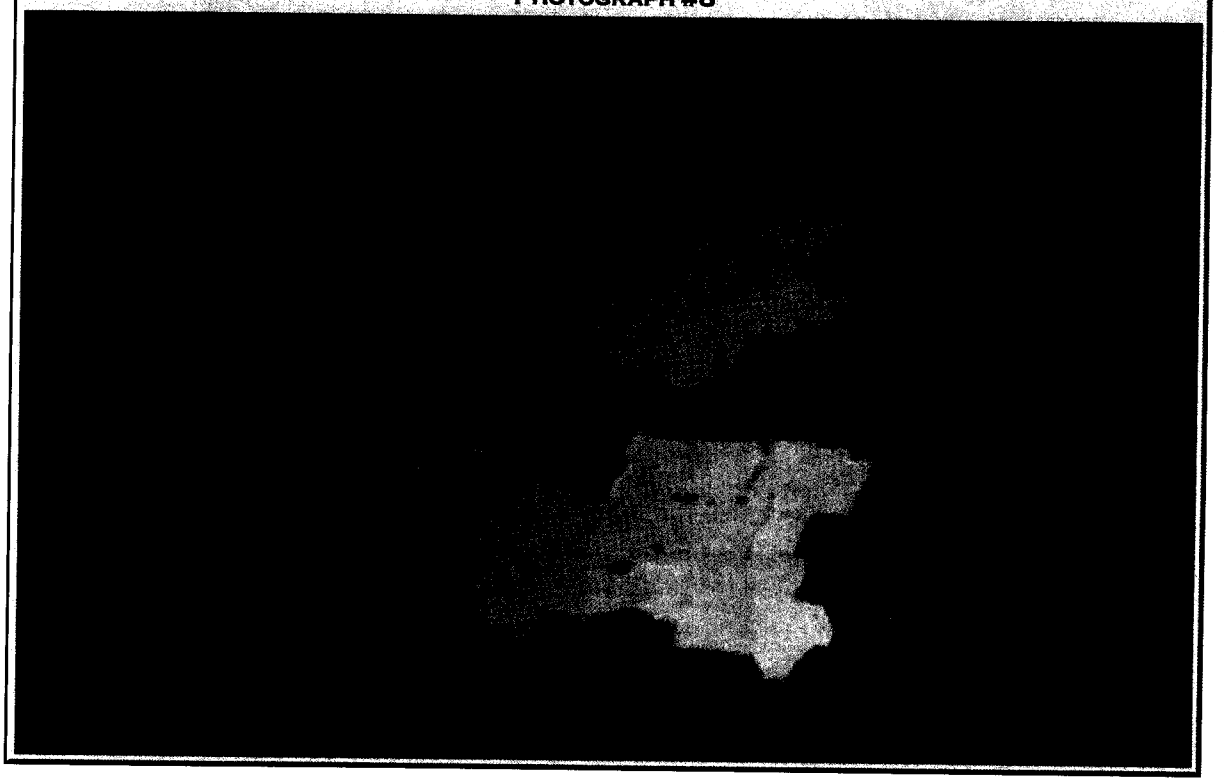
View of the back room in the subject property structure, showing the water heater and bathrooms.

PHOTOGRAPH #7



View of a Kerosene container located in the rear portion of the subject property structure.

PHOTOGRAPH #8

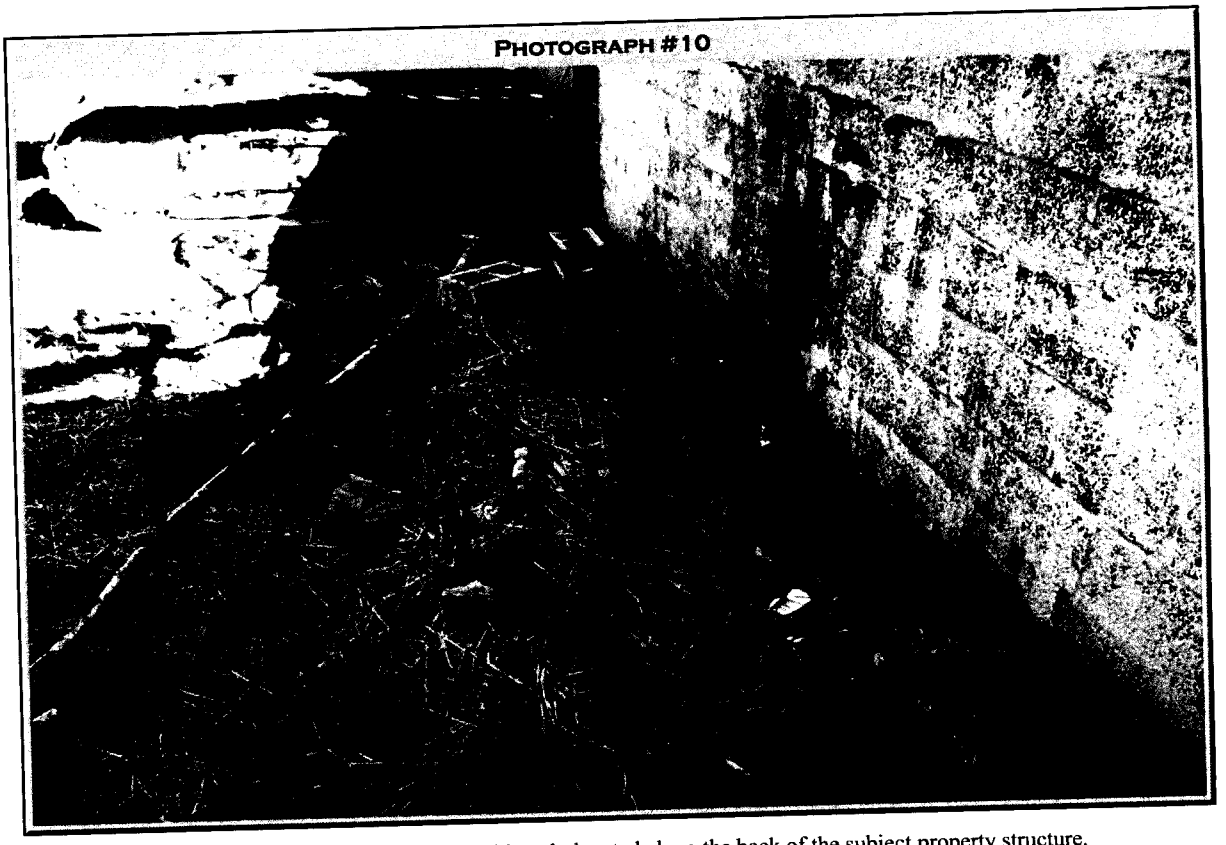


View of peeling and flaking paint observed throughout the interior of the subject property structure.

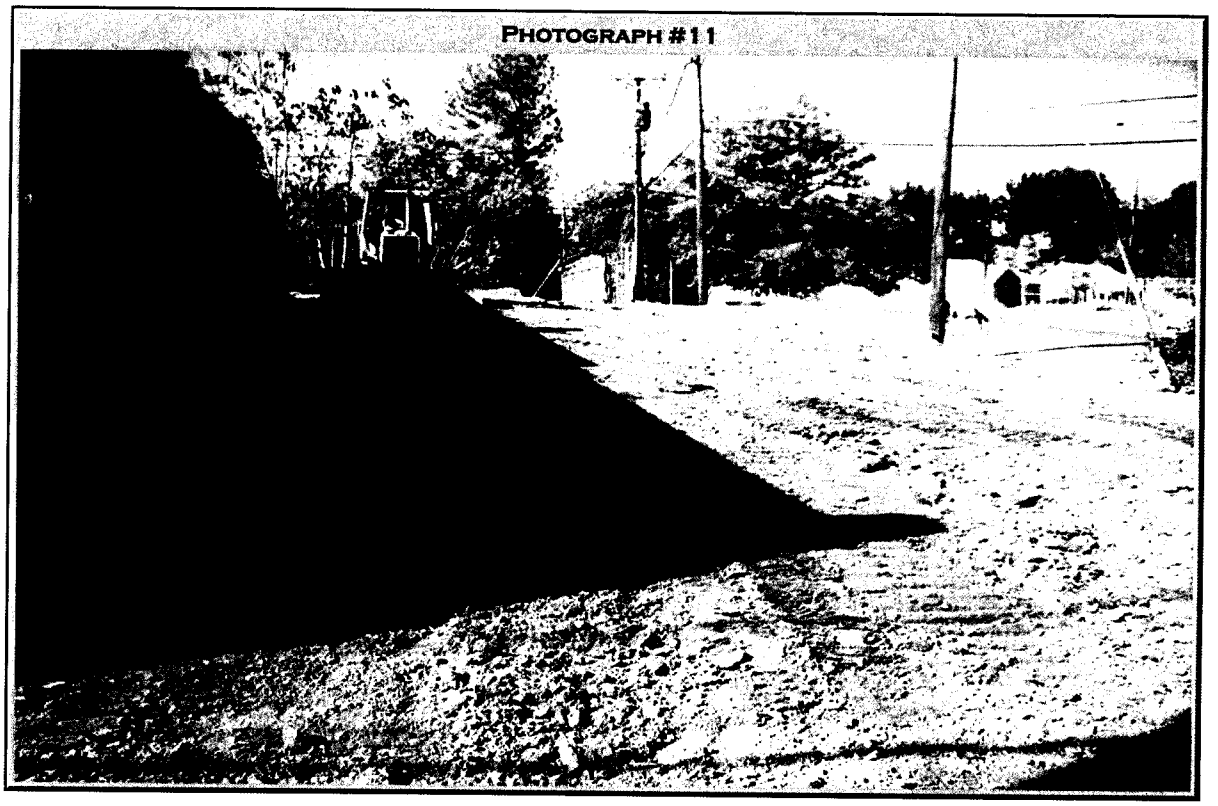
PHOTOGRAPH #9

View of damaged floor tile and black mastic, identified Asbestos Containing Materials (ACMs).

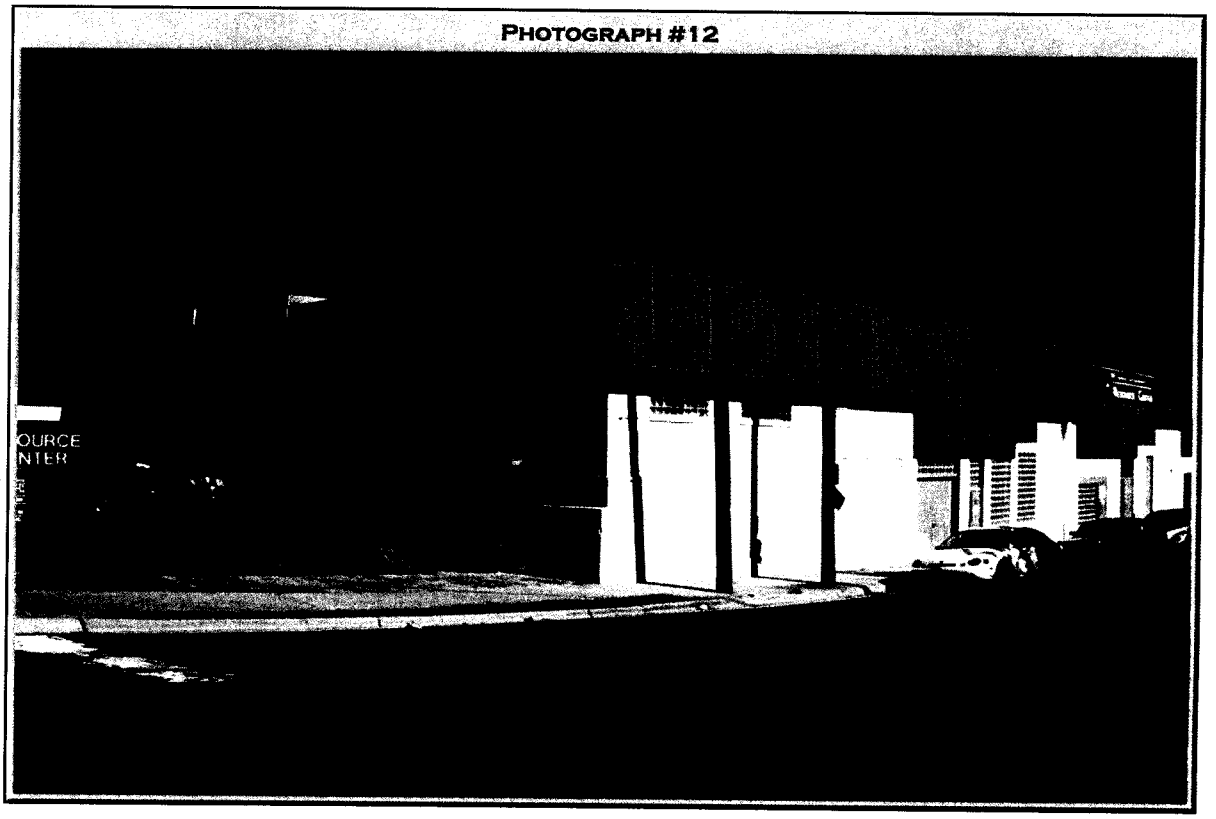
PHOTOGRAPH #10



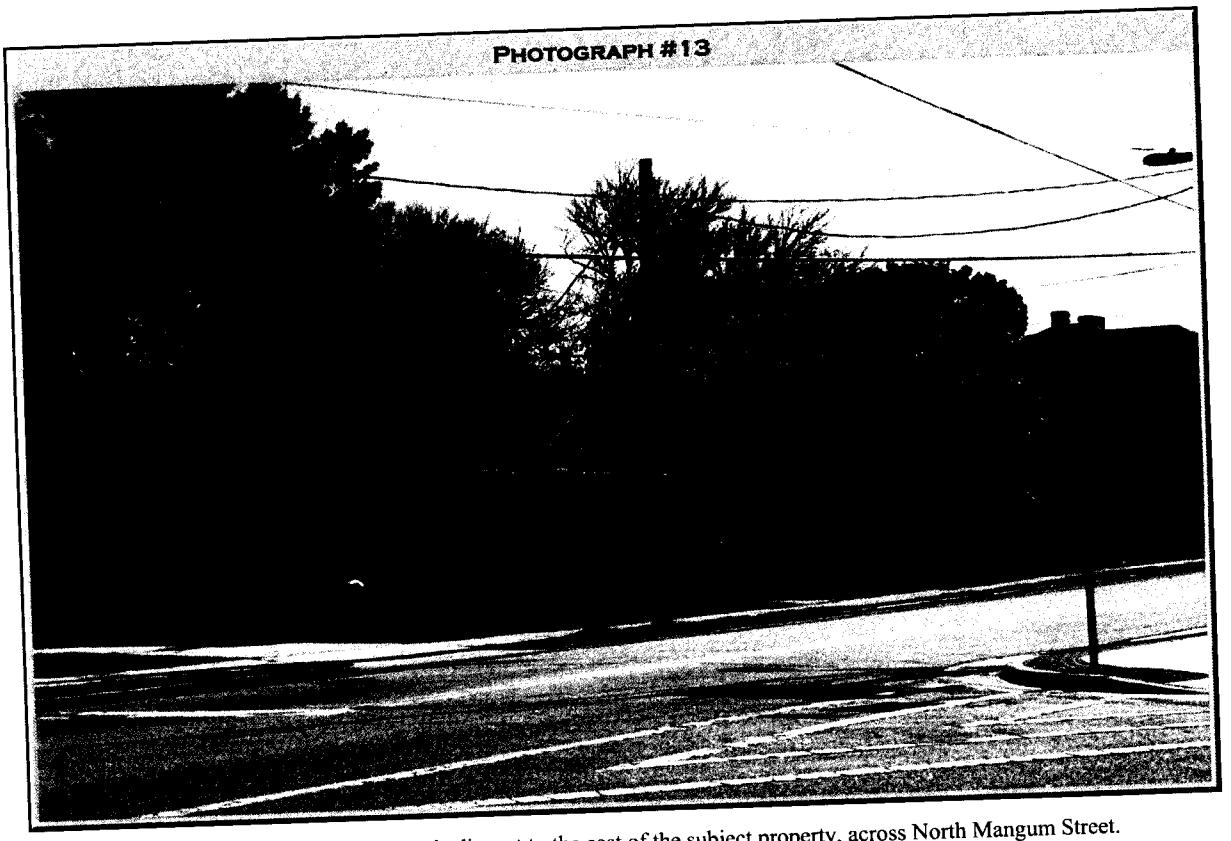
View of dumped debris and household trash, located along the back of the subject property structure.



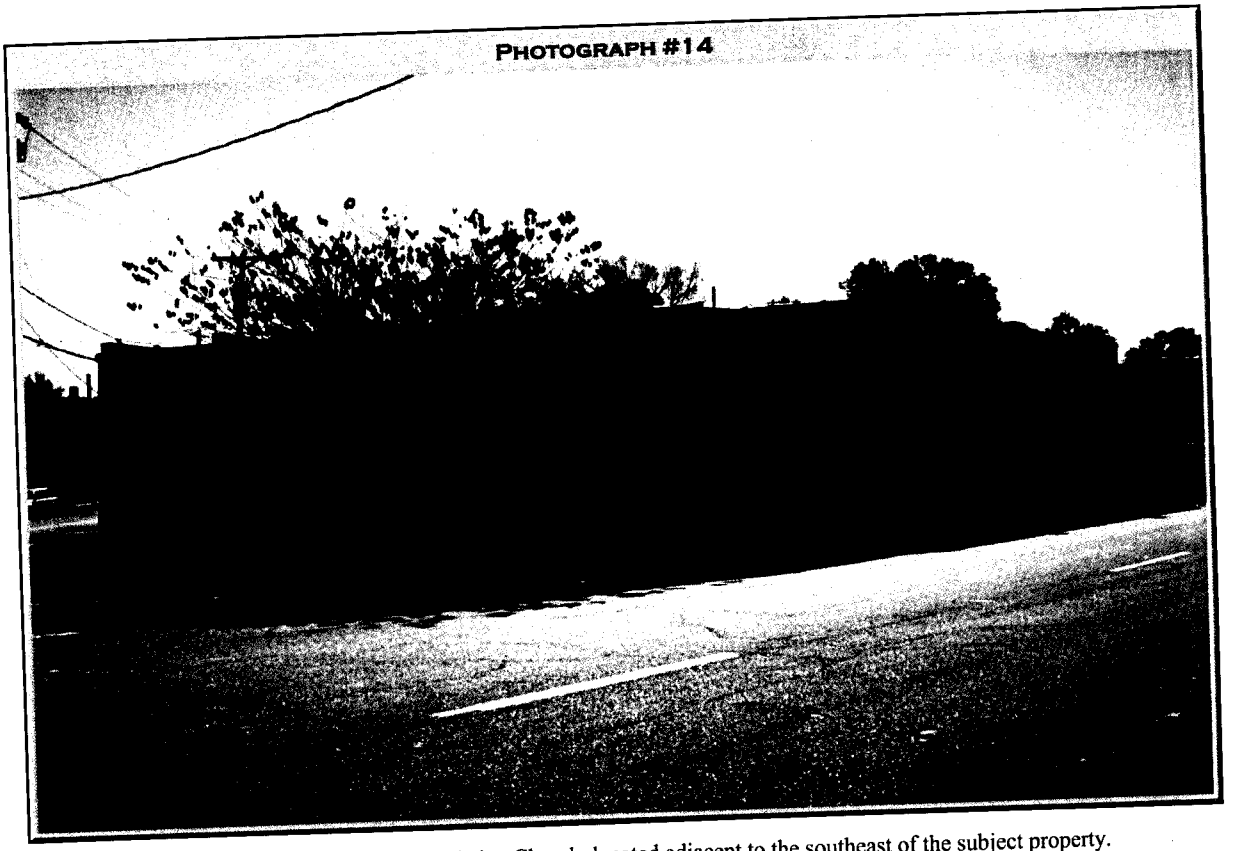
Cleared, undeveloped land located adjacent to the north of the subject property.



UDI Resource Canter, located to the northeast of the subject property.

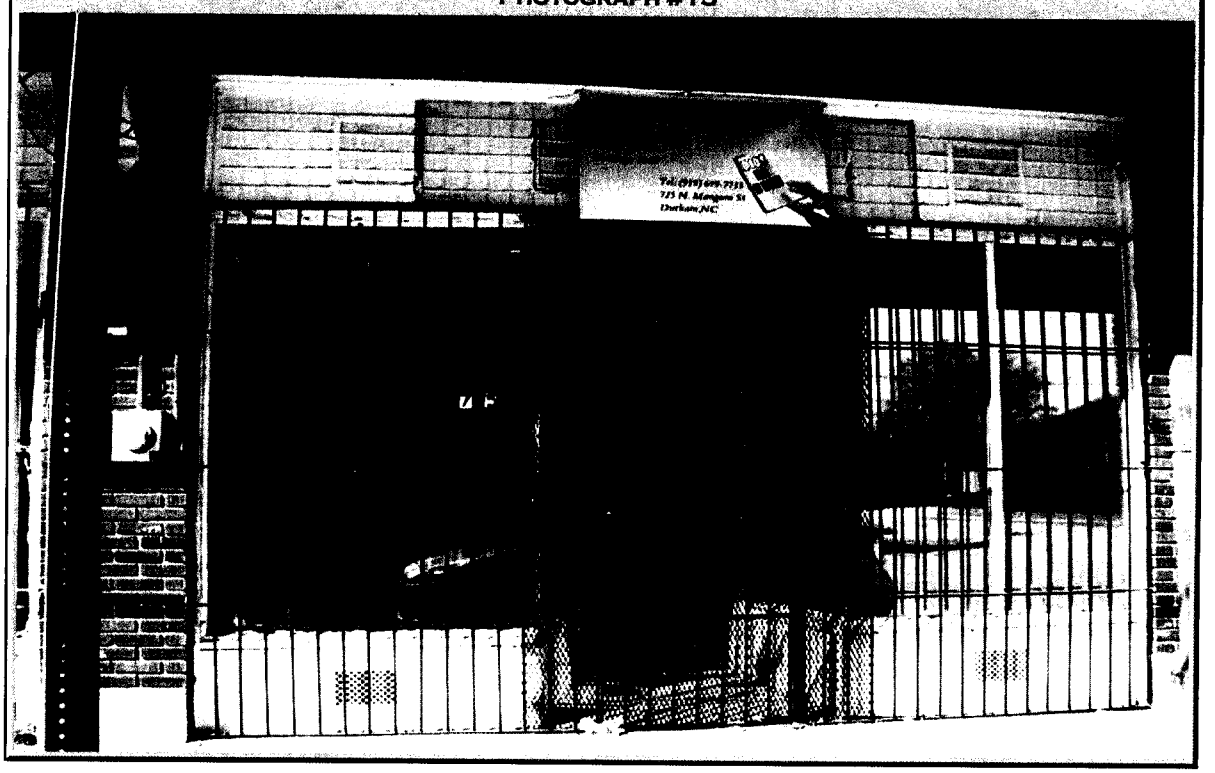


Single-family residences, located adjacent to the east of the subject property, across North Mangum Street.



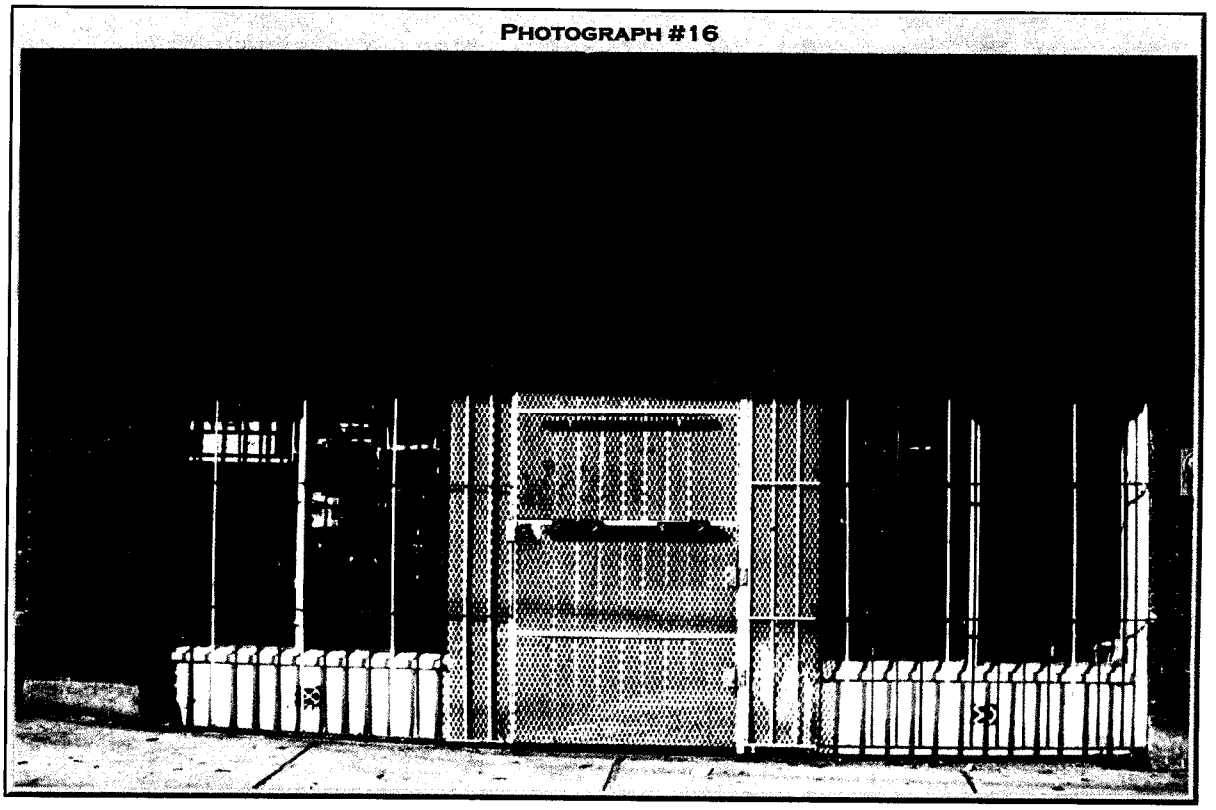
Shabach Outreach Ministries Christian Church, located adjacent to the southeast of the subject property.

PHOTOGRAPH #15

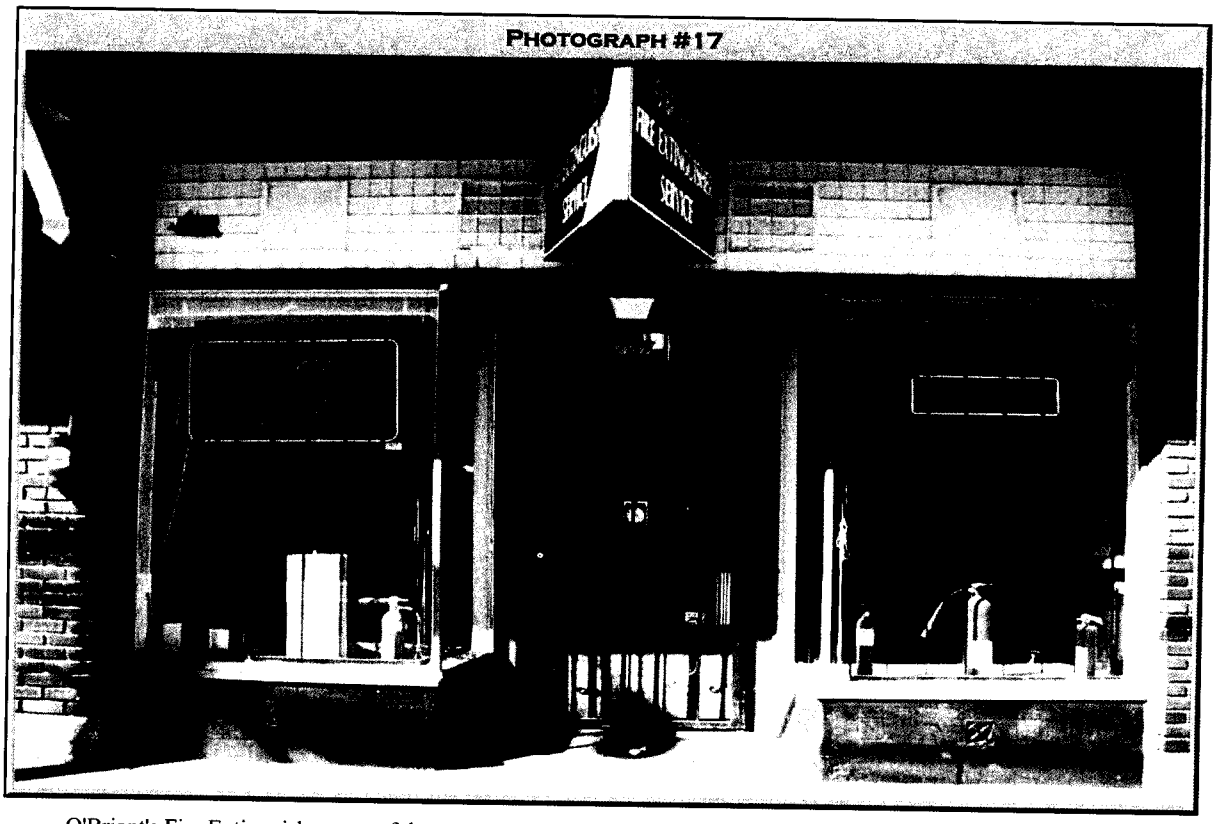


Iglesia Evangelica Principe De Paz, one of the commercial properties located adjacent to the south of the subject property.

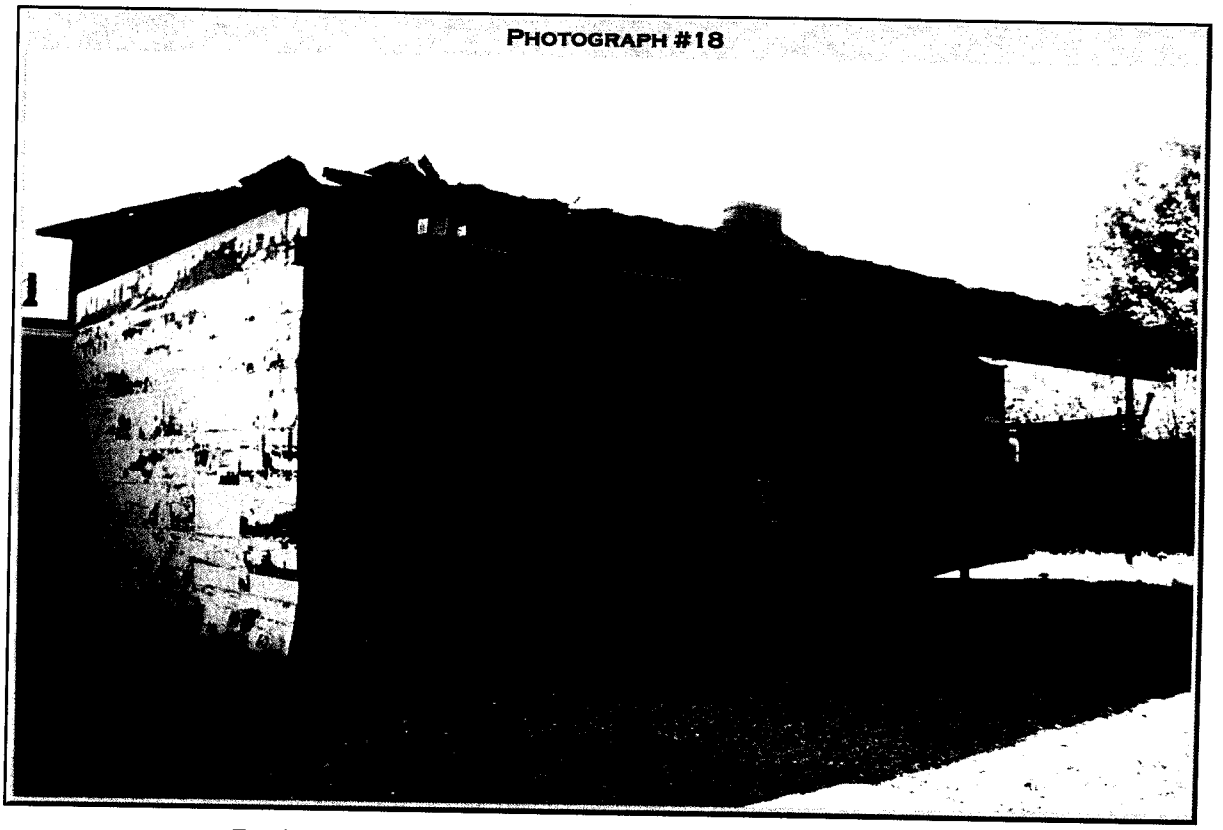
PHOTOGRAPH #16



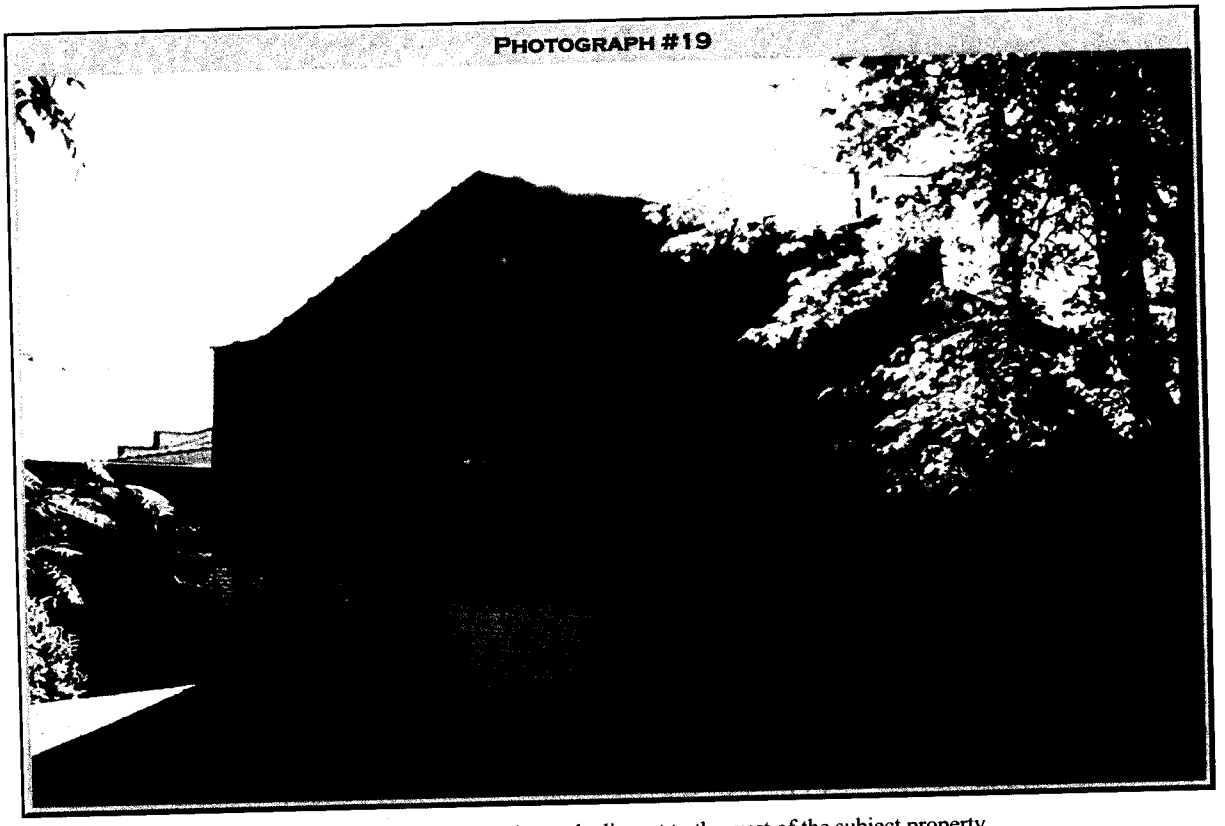
Vacant retail store, one of the commercial properties located adjacent to the south of the subject property.



O'Briant's Fire Extinguisher, one of the commercial properties located adjacent to the south of the subject property.



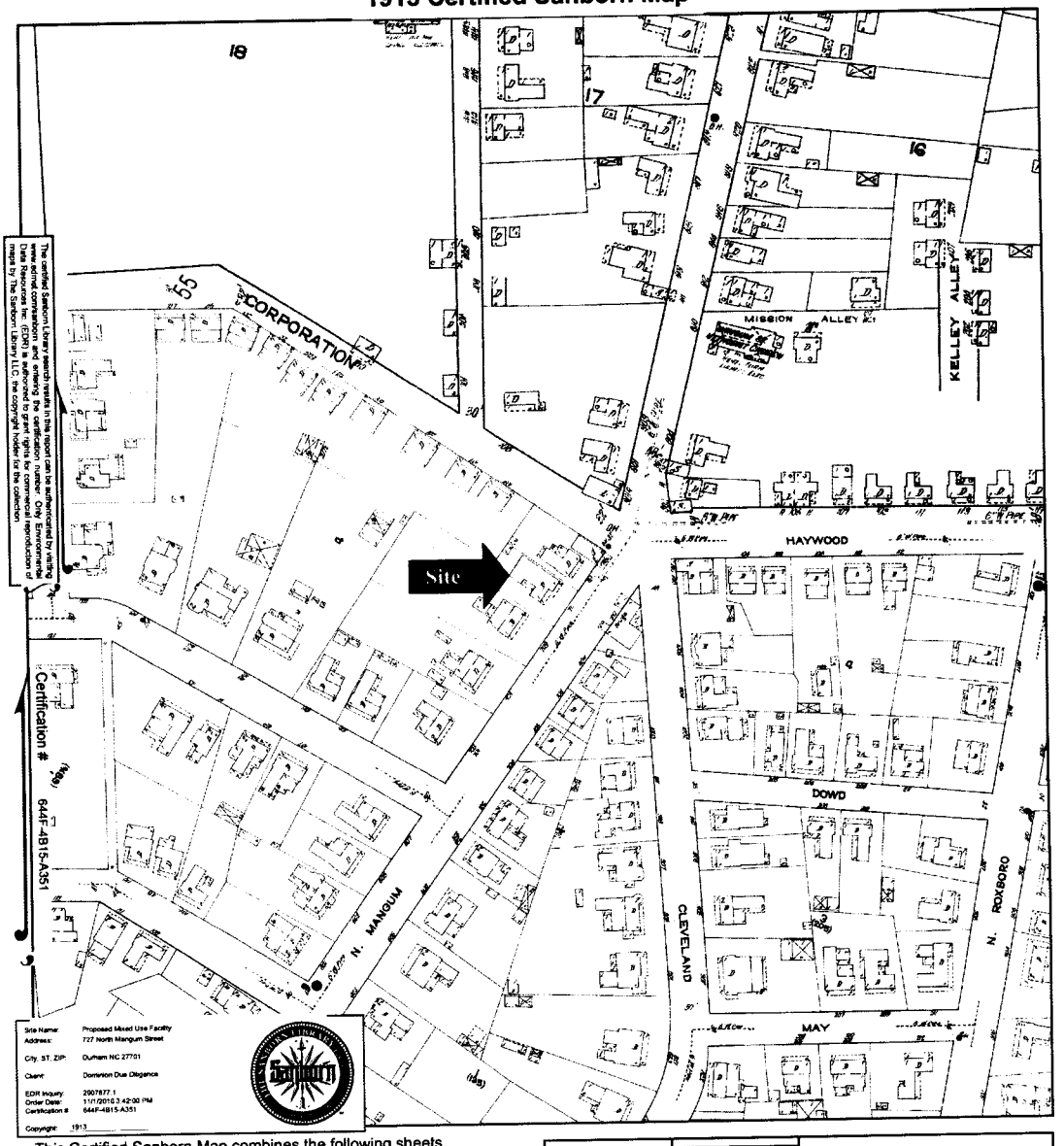
Terreiro De Arte E Cultura, located adjacent to the west of the subject property.



Carolina Ceramic Coatings, located adjacent to the west of the subject property.

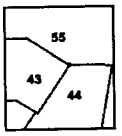
Cleared, undeveloped land located adjacent to the northwest of the subject property.

1913 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume 1, Sheet 43
Volume 1, Sheet 44
Volume 1, Sheet 55

N

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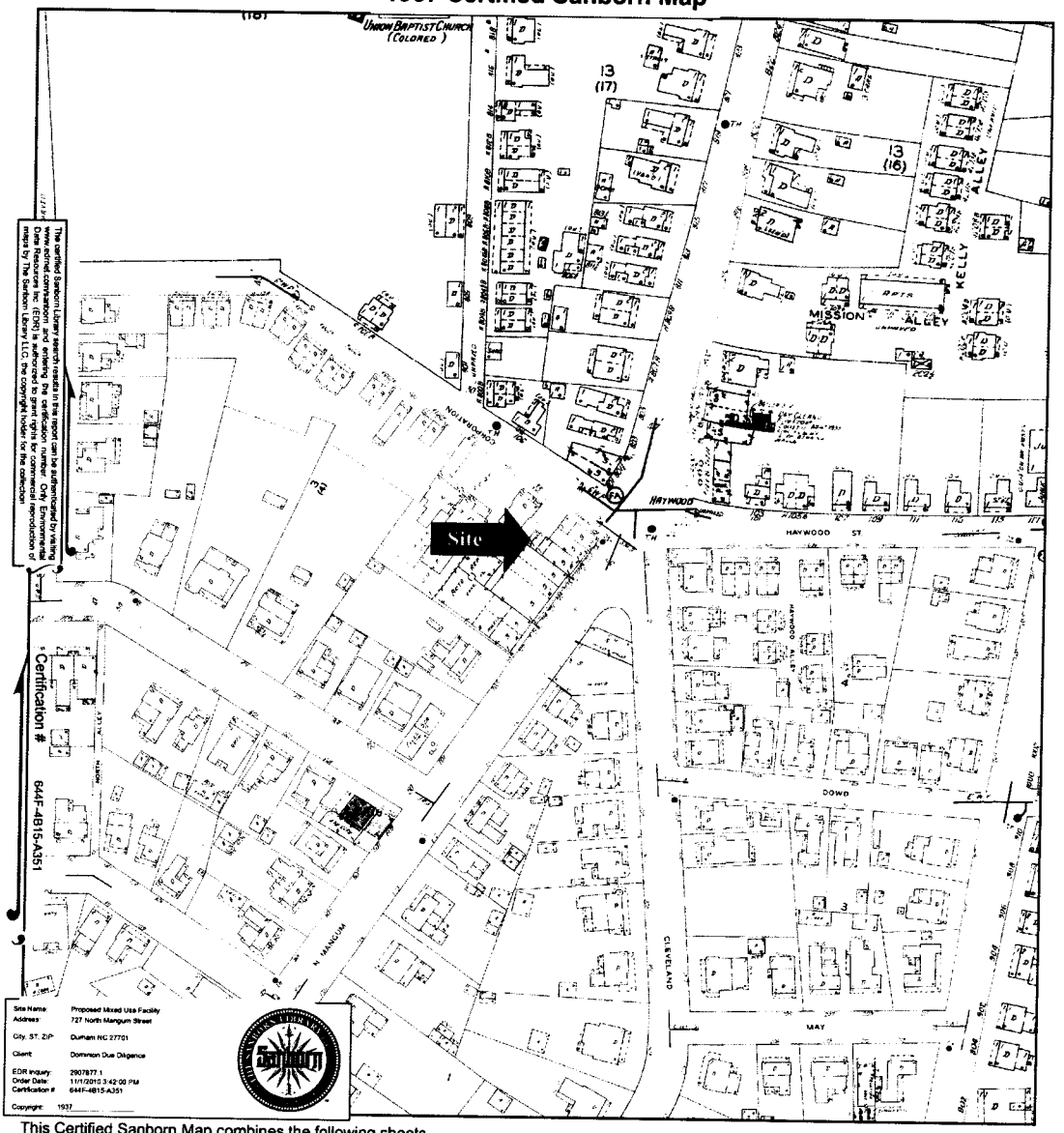
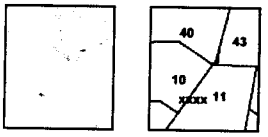
Appendix D Sanborn Fire Insurance Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 1913*	**DOMINION DUE DILIGENCE GROUP**

1937 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 1, Sheet xxxx
Volume 1, Sheet 10
Volume 1, Sheet 11
Volume 1, Sheet 40
Volume 1, Sheet 43

0 Feet 150 300 600

N

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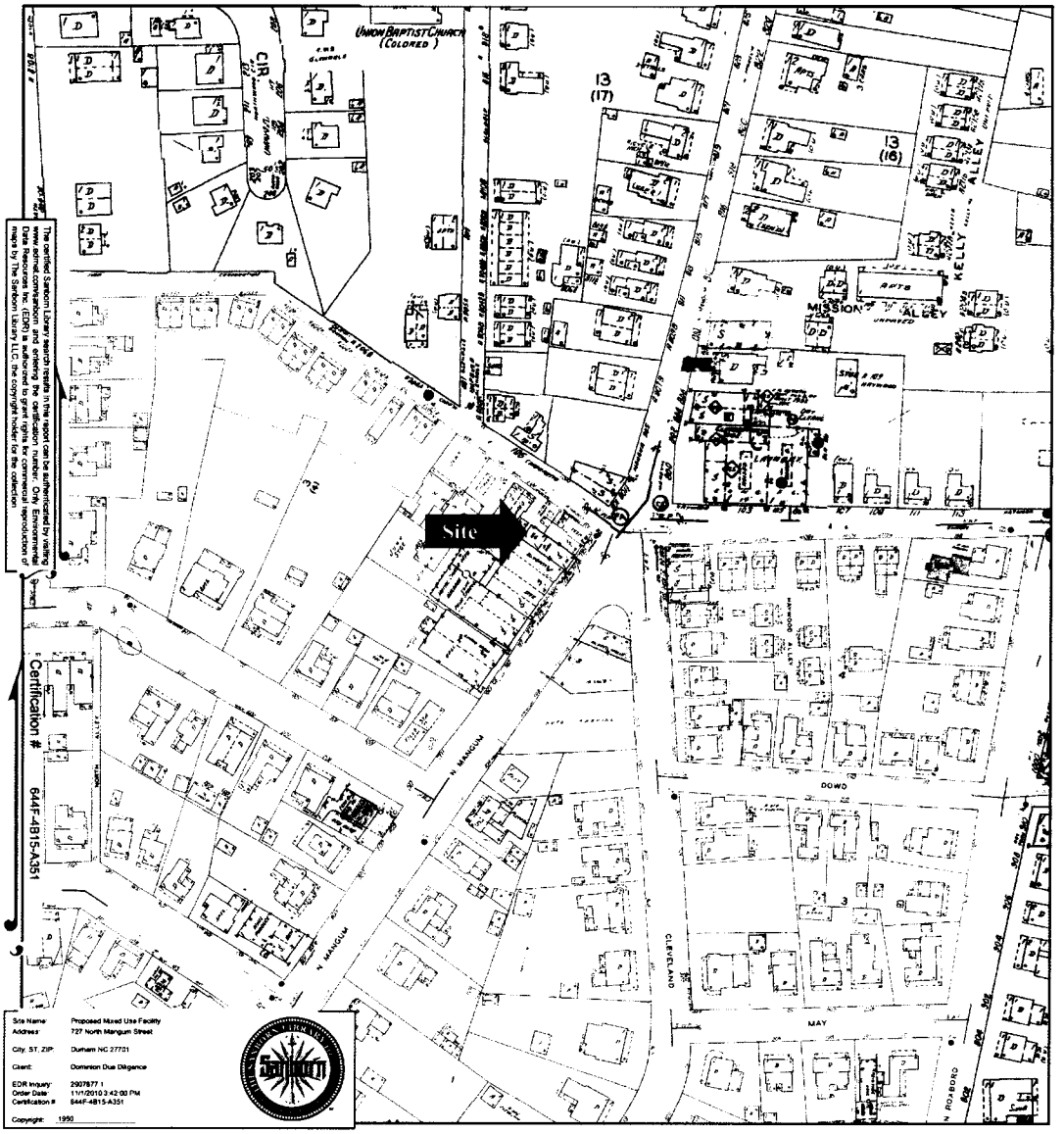
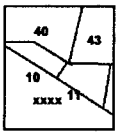
Appendix D Sanborn Fire Insurance Map	↑ N	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 1937*	**DOMINION DUE DILIGENCE GROUP**

1950 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 40
Volume 1, Sheet 43
Volume 1, Sheet xxxx
Volume 1, Sheet 10
Volume 1, Sheet 11

0 Feet 150 300 600

N

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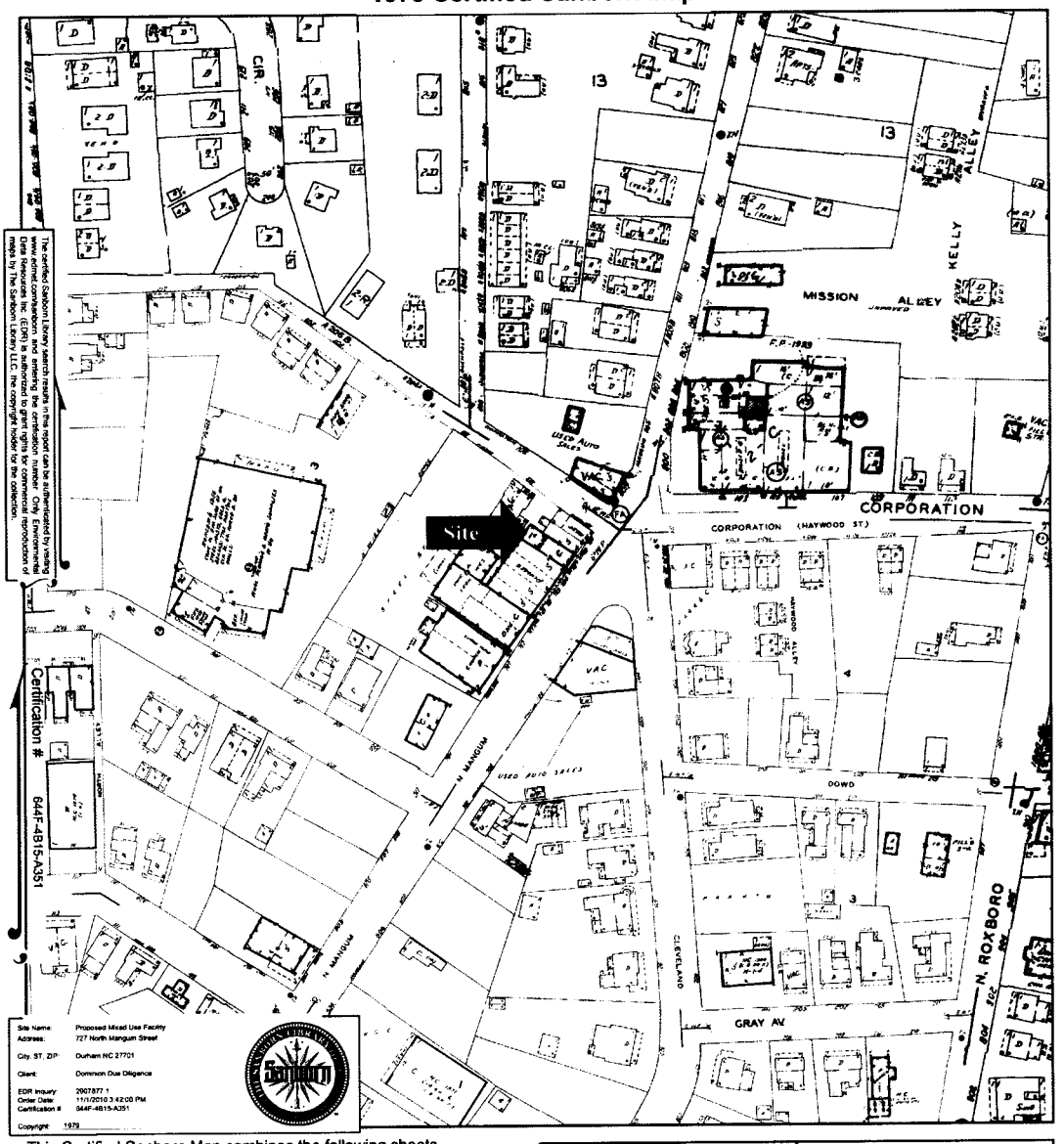
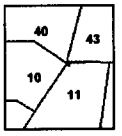
Appendix D Sanborn Fire Insurance Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 1950*	**DOMINION DUE DILIGENCE GROUP**

1979 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 10
Volume 1, Sheet 11
Volume 1, Sheet 40
Volume 1, Sheet 43

0 Feet 150 300 600

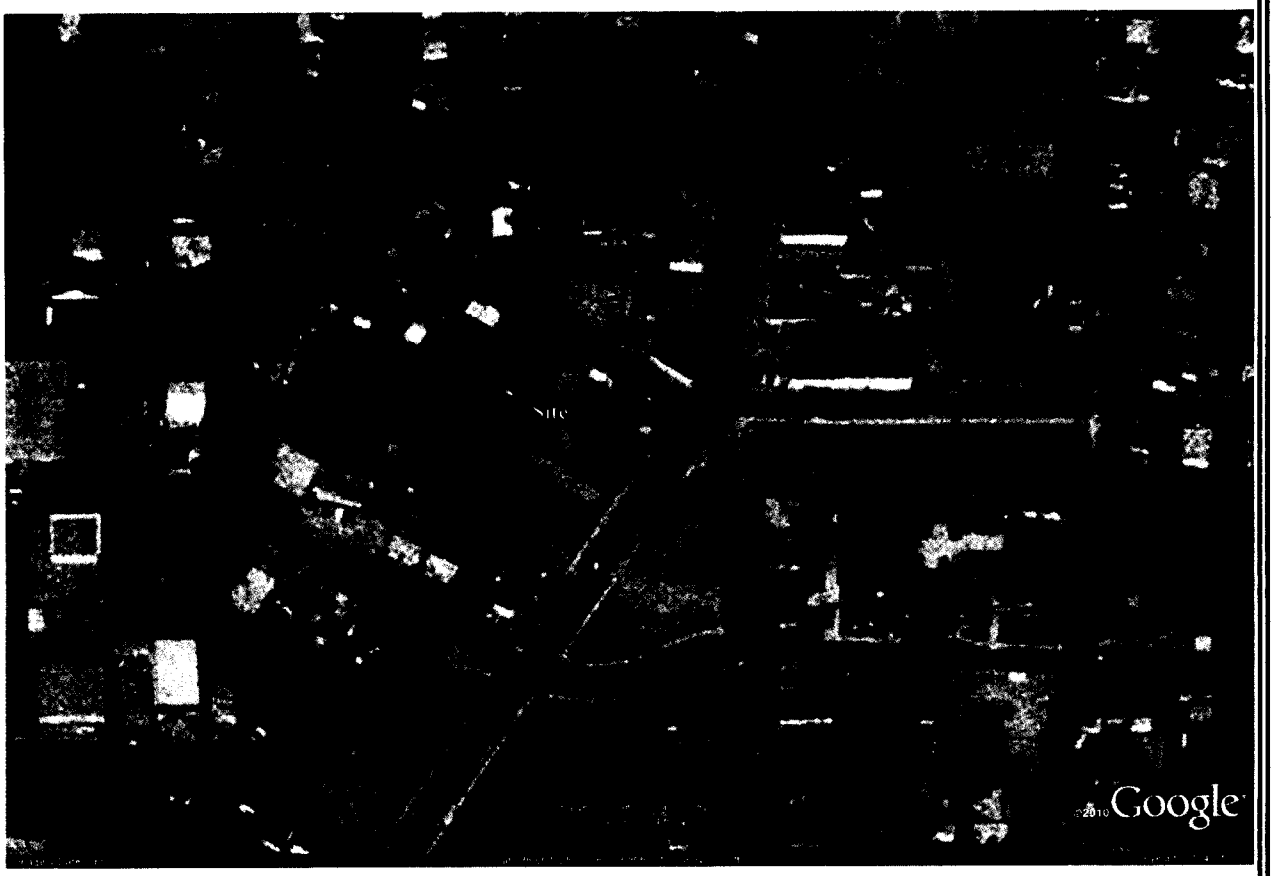
N

2907877 - 1 page 4

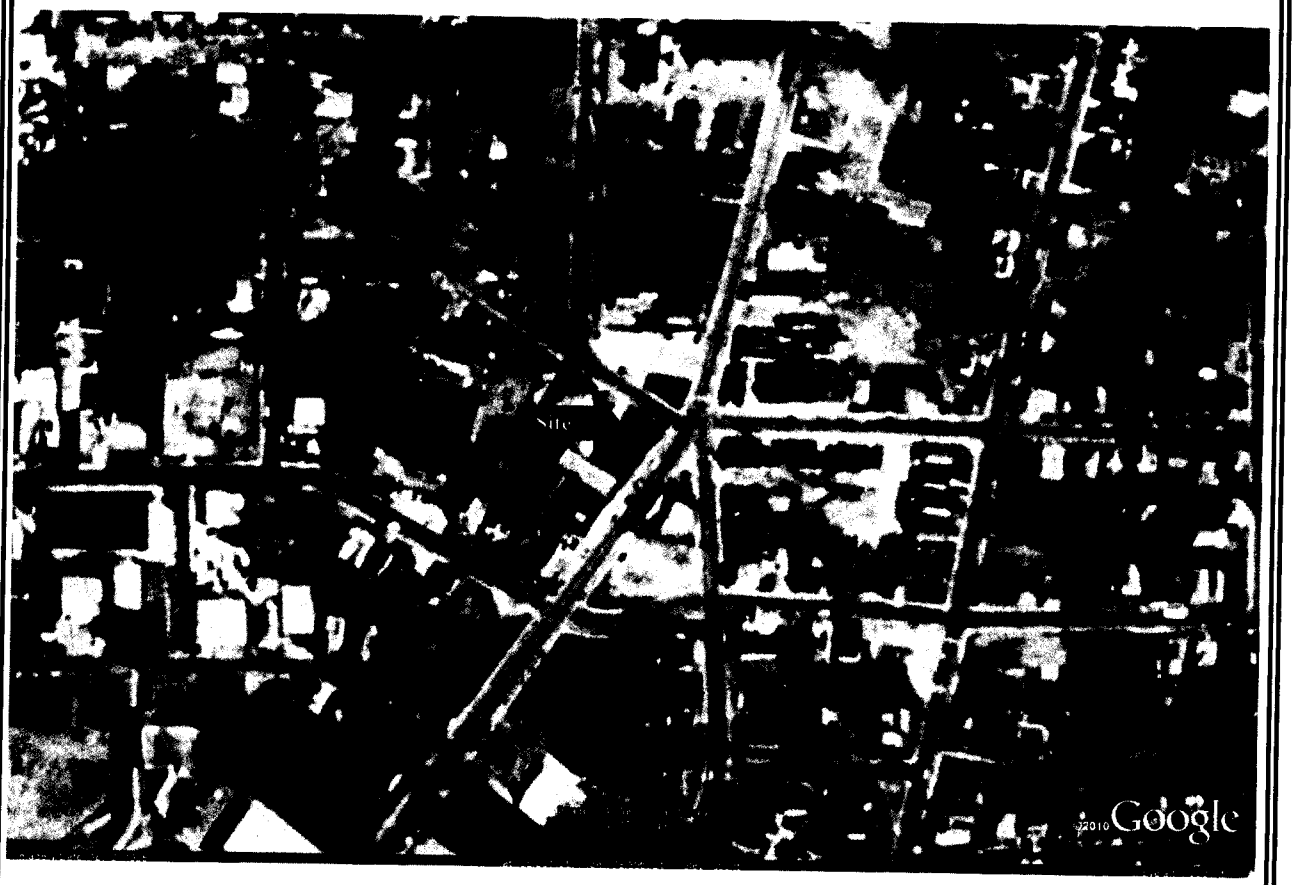
Appendix D Sanborn Fire Insurance Map	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 1979*	**DOMINION DUE DILIGENCE GROUP**

Appendix D Aerial Photograph	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 1950*	**DOMINION DUE DILIGENCE GROUP**

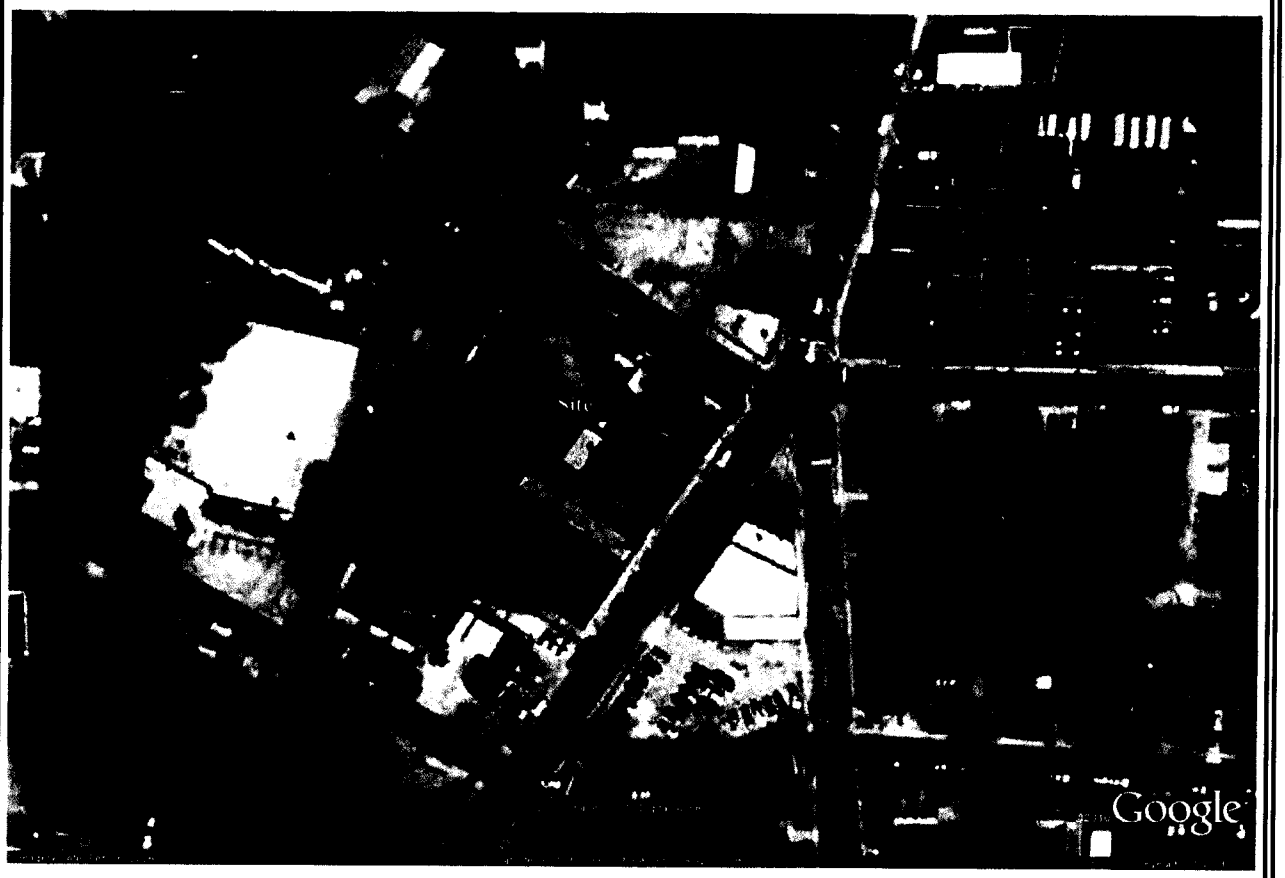
Appendix D Aerial Photograph	↑ N	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 1972*	**DOMINION DUE DILIGENCE GROUP**



Appendix D Aerial Photograph	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 1993*	**DOMINION DUE DILIGENCE GROUP**



Appendix D Aerial Photograph	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 1998*	**DOMINION DUE DILIGENCE GROUP**



Appendix D Aerial Photograph	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 2006*	**DOMINION DUE DILIGENCE GROUP**

Appendix D Aerial Photograph	↑ **N**	Proposed Mixed Use Facility 727 North Mangum Street Durham, North Carolina *Date: 2010*	**DOMINION DUE DILIGENCE GROUP**

EXECUTIVE SUMMARY

MAP INFORMATION

The Overview Map provides information on nearby property parcel boundaries. Properties on this map that were selected for research are listed below the map.

SELECTED ADDRESSES

The following addresses were selected by the client. Detailed findings are contained in the findings section. An "X" indicates where information was identified.

Address	Type	Findings
727 North Mangum Street	Map ID: 1	X
800 N MANGUM ST	Map ID: 13	X
729 N MANGUM ST	Map ID: 2	X
103 W CORPORATION ST	Map ID: 3	X
715 N MANGUM ST	Map ID: 4	X
731 N MANGUM ST	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

727 North Mangum Street
Durham, NC 27701

MapID: 1

FINDINGS DETAIL

Target Property research detail.

Year	Uses	Source	
2009	No Current Listing	infoUSA City Directories	
	No Current Listing	infoUSA City Directories	
1997	VIVIANS FURNITURE & GROCERY used merch stores	The Polk Co. City Directories	
	VIVIANS FURNITURE & GROCERY used merch stores	The Polk Co. City Directories	
1995	VIVIAN USED FURNITURE & GROCERY	R. L. Polk Co.	Image pg. A61
	VIVIAN USED FURNITURE & GROCERY	R. L. Polk Co.	Image pg. A61
1990	Vacant	R. L. Polk Co.	Image pg. A49
	Vacant	R. L. Polk Co.	Image pg. A49
1983	Triangle Barber Shop	R. L. Polk Co.	Image pg. A34
	Triangle Barber Shop	R. L. Polk Co.	Image pg. A34
1969	WILKINS PRINTING CO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	WILKINS PRINTING CO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
1963	Cinderella Beauty Salon	Hill Directory Co., Inc., Publishers	
	Cinderella Beauty Salon	Hill Directory Co., Inc., Publishers	
1958	H & W Appliance Center inc	Hill Directory Co., Inc., Publishers	
	H & W Appliance Center Inc	Hill Directory Co., Inc., Publishers	
1954	Whiteway Mkt gros	Hill Directory Co., Inc., Publishers	
	Whiteway Mkt gros	Hill Directory Co., Inc., Publishers	
1949	Thompson Home Bkry	Hill Directory Co., Inc., Publishers	
	Thompson Home Bkry	Hill Directory Co., Inc., Publishers	
1940	Pickards Mkt gros	Hill Directory Co., Inc., Publishers	
	Pickards Mkt gros	Hill Directory Co., Inc., Publishers	
1935	Colelough Wm S gro	Hill Directory Co., Inc., Publishers	
	Colelough Wm S gro	Hill Directory Co., Inc., Publishers	
1930	Colclough WTm S gro	Hill Directory Co., Inc., Publishers	
	Colclough WTm S gro	Hill Directory Co., Inc., Publishers	

FINDINGS

1020 CLEVELAND

Year	Uses	Source	
1979	Roses Beauty Nook	General Telephone Company of the Southeast	
1975	Laneys Beauty Nook	General Telephone Company of the Southeast	
1963	Garlands Taxidermy Shop	Hill Directory Co., Inc., Publishers	
1958	Cinderella Beauty Salon	Hill Directory Co., Inc., Publishers	
1954	Salon	Hill Directory Co., Inc., Publishers	
	Cinderella Beauty	Hill Directory Co., Inc., Publishers	
1949	Fredericks Beauty Salon	Hill Directory Co., Inc., Publishers	
1944	hse furnishing gds	Hill Directory Co., Inc.,	Image pg. A2
	Silver Sales Service Inc	Hill Directory Co., Inc.,	Image pg. A2

1022 CLEVELAND

Year	Uses	Source	
1949	1022 24 Pearce Radio Service	Hill Directory Co., Inc., Publishers	
1944	1022 26 Jay Cee Grill restr	Hill Directory Co., Inc.,	Image pg. A2
1940	Loftin Music Store	Hill Directory Co., Inc., Publishers	

1024 CLEVELAND

Year	Uses	Source	
1963	Vacant	Hill Directory Co., Inc., Publishers	
	Vacant	Hill Directory Co., Inc., Publishers	
1958	1024 26 Inland Gas Co Inc bottled gas	Hill Directory Co., Inc., Publishers	
	Faulk Claude S	Hill Directory Co., Inc., Publishers	
1954	1024 26 Inland Gas Co Inc	Hill Directory Co., Inc., Publishers	
	Austin Marvin	Hill Directory Co., Inc., Publishers	
1949	Horton Eldrie Mrs	Hill Directory Co., Inc., Publishers	
	1022 24 Pearce Radio Service	Hill Directory Co., Inc., Publishers	
1944	Loftin PFloyd F	Hill Directory Co., Inc.,	Image pg. A2
1940	Loftin Floyd F	Hill Directory Co., Inc., Publishers	

1026 CLEVELAND

Year	Uses	Source	
1979	OBRIANTS FIRE EXTINGUISHER SERVICE	General Telephone Company of the Southeast	
1975	OBRIANTS FIRE EXTINGUISHER SERVICE	General Telephone Company of the Southeast	
1963	Inland Gas Co Inc bottled gas	Hill Directory Co., Inc., Publishers	
1958	1024 26 Inland Gas Co Inc bottled gas	Hill Directory Co., Inc., Publishers	
1954	1024 26 Inland Gas Co Inc	Hill Directory Co., Inc., Publishers	

FINDINGS

1020 CLEVELAND ST

Year	Uses	Source	
1983	Roses Beauty Nook	R. L. Polk Co.	Image pg. A27
1969	GARLANDS TAXIDERMY c HOP	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A12

1022 CLEVELAND ST

Year	Uses	Source	
1990	1018 1022 Vacant 2 Hses	R. L. Polk Co.	Image pg. A42
1983	Shaw Abe the Hatter Valet Shop cln	R. L. Polk Co.	Image pg. A27

1024 CLEVELAND ST

Year	Uses	Source	
1969	WILSON LUCIUS J	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A13
	VACANT	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A12
	VACANT	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A12

1026 CLEVELAND ST

Year	Uses	Source	
1990	OBriants Fire Extinguisher Service	R. L. Polk Co.	Image pg. A42
1983	OBriants Fire Extinguisher Service	R. L. Polk Co.	Image pg. A27
1969	CUSTOM GAS SERV INC	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A13

901 CLEVELAND ST

Year	Uses	Source	
2009	Anderson Joy	infoUSA City Directories	
	Sponne Cherde	infoUSA City Directories	
2002	Bosques Carrie N E	Polk Directories	Image pg. A68
1997	Sayer Benjamin	The Polk Co. City Directories	
1995	Melvin Walter	R. L. Polk Co.	Image pg. A54
1990	liver Melvin	R. L. Polk Co.	Image pg. A41
1983	Peaks Mamie M	R. L. Polk Co.	Image pg. A27
1969	KELLY GEO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A12

902 CLEVELAND ST

Year	Uses	Source	
2009	Glowing Wood Sculptures	infoUSA City Directories	
2002	CONSOLIDATED ELECTRi CAL elec	Polk Directories	Image pg. A68

206 CORPORATION E

Year	Uses	Source
1963	Bums Willie D	Hill Directory Co., Inc., Publishers
	Carrington Willie E Mrs	Hill Directory Co., Inc., Publishers

207 CORPORATION E

Year	Uses	Source
1963	Clayton Mamie Mrs	Hill Directory Co., Inc., Publishers
	Hester Van	Hill Directory Co., Inc., Publishers

208 CORPORATION E

Year	Uses	Source
1963	Mc Dougle Cora	Hill Directory Co., Inc., Publishers
	Hopson Lillie M	Hill Directory Co., Inc., Publishers

209 CORPORATION E

Year	Uses	Source
1963	Alston Saml L	Hill Directory Co., Inc., Publishers

210 CORPORATION E

Year	Uses	Source
1963	Sims Bessie B Mrs	Hill Directory Co., Inc., Publishers

211 CORPORATION E

Year	Uses	Source
1963	Liles John B	Hill Directory Co., Inc., Publishers

212 CORPORATION E

Year	Uses	Source
1963	Sanders Etta F Mrs	Hill Directory Co., Inc., Publishers

213 CORPORATION E

Year	Uses	Source
1963	Green Ed	Hill Directory Co., Inc., Publishers
	Marrow Sam	Hill Directory Co., Inc., Publishers

CORPORATION W

103 CORPORATION W

Year	Uses	Source
1963	AFL CIO Committee On Political	Hill Directory Co., Inc., Publishers
	Education	Hill Directory Co., Inc., Publishers

Year	Uses	Source
1963	Durham Elec Co	Hill Directory Co., Inc., Publishers

110 CORPORATION W

Year	Uses	Source
1963	Singletary Susie T Mrs	Hill Directory Co., Inc., Publishers

204 CORPORATION W

Year	Uses	Source
1963	Spencer Julia M	Hill Directory Co., Inc., Publishers
	Smith Annie L	Hill Directory Co., Inc., Publishers

205 CORPORATION W

Year	Uses	Source
1963	Noland Co Inc rear ent	Hill Directory Co., Inc., Publishers

207 CORPORATION W

Year	Uses	Source
1963	Hester Wm C	Hill Directory Co., Inc., Publishers

209 CORPORATION W

Year	Uses	Source
1963	Davis Will	Hill Directory Co., Inc., Publishers

211 CORPORATION W

Year	Uses	Source
1963	Lyons Doris	Hill Directory Co., Inc., Publishers

213 CORPORATION W

Year	Uses	Source
1963	Williams Lorena Mrs	Hill Directory Co., Inc., Publishers

215 CORPORATION W

Year	Uses	Source
1963	Duffin James B	Hill Directory Co., Inc., Publishers

217 CORPORATION W

Year	Uses	Source
1963	Davis Mary R Mrs	Hill Directory Co., Inc., Publishers

FINDINGS

213 CORPORATION ST E

Year	Uses	Source	
1995	212 213 Vacant 2 Hoes	R. L. Polk Co.	Image pg. A55
1990	212 213 No Return 2 Hses	R. L. Polk Co.	Image pg. A43
1983	Chavis Louise M	R. L. Polk Co.	Image pg. A28
	Green Ed	R. L. Polk Co.	Image pg. A28
1969	GREEN EDW L	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A14

CORPORATION ST W

103 CORPORATION ST W

Year	Uses	Source	
1995	FAITHCEN NEW LIFE churches	R. L. Polk Co.	Image pg. A55
1990	Faithcen New Life churches	R. L. Polk Co.	Image pg. A43
1983	Special Services	R. L. Polk Co.	Image pg. A28
1969	DURHAM ELECTRIC CO CONTRS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A14

105 CORPORATION ST W

Year	Uses	Source	
1995	105 106 Not Verified 2 Hoes	R. L. Polk Co.	Image pg. A55
1990	Vega Metals Inc	R. L. Polk Co.	Image pg. A43

106 CORPORATION ST W

Year	Uses	Source	
1995	105 106 Not Verified 2 Hoes	R. L. Polk Co.	Image pg. A55
1990	Evans Kitchen	R. L. Polk Co.	Image pg. A43

204 CORPORATION ST W

Year	Uses	Source	
1995	a Not Verified	R. L. Polk Co.	Image pg. A55
	b Farrar William E I	R. L. Polk Co.	Image pg. A55
1990	br Blankenship Donald	R. L. Polk Co.	Image pg. A43
	a Vacant	R. L. Polk Co.	Image pg. A43
1983	aWilliams Teresa	R. L. Polk Co.	Image pg. A28
	b Spencer Bessie B Mrs	R. L. Polk Co.	Image pg. A28
1969	A SMITH ANNIE L	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A14

FINDINGS

701 MANGUM N

Year	Uses	Source	
1963	Fowlers Amoco Serv	Hill Directory Co., Inc., Publishers	
1958	Fowlers Amoco Serv	Hill Directory Co., Inc., Publishers	
1954	Fowlers Amoco	Hill Directory Co., Inc., Publishers	
1949	fill sta	Hill Directory Co., Inc., Publishers	
	Fowlers Amoco Serv	Hill Directory Co., Inc., Publishers	
1944	Williams & Fowler Service	Hill Directory Co., Inc.,	Image pg. A7
	Station	Hill Directory Co., Inc.,	Image pg. A7
1940	Alexander Motor Co Tire Div Sta No	Hill Directory Co., Inc., Publishers	
1935	Alex Motor Co Tire Div No	Hill Directory Co., Inc., Publishers	

702 MANGUM N

Year	Uses	Source	
1963	Jobe Blackley Plmb Co	Hill Directory Co., Inc., Publishers	
1958	Jobe Blackley Plmb Co	Hill Directory Co., Inc., Publishers	
1954	Jobe Blackley Plmb	Hill Directory Co., Inc., Publishers	
1949	Jobe Blackley Plmbg Co	Hill Directory Co., Inc., Publishers	
1944	Wilson Anna Mrs Co D	Hill Directory Co., Inc.,	Image pg. A7
1940	Wilson Anna Mrs	Hill Directory Co., Inc., Publishers	
1935	Wilson Annie Mrs	Hill Directory Co., Inc., Publishers	
1930	Wilson Anna Mrs	Hill Directory Co., Inc., Publishers	
1925	Wilson Anna Mrs	Hill Directory Co., Inc., Publishers	
1920	Wilson Annie Mrs	Hill Directory Co., Inc., Publishers	

703 MANGUM N

Year	Uses	Source
1930	Standard Oil Co gas sta	Hill Directory Co., Inc., Publishers
1925	Upchurch W M	Hill Directory Co., Inc., Publishers
1920	Upchurch W M	Hill Directory Co., Inc., Publishers

704 MANGUM N

Year	Uses	Source	
1963	City Mtrs of Durham used cars	Hill Directory Co., Inc., Publishers	
	Sherman Anna P Mrs bkpg serv	Hill Directory Co., Inc., Publishers	
1958	Vacant	Hill Directory Co., Inc., Publishers	
1954	Mc Dade & Moize	Hill Directory Co., Inc., Publishers	
	Mtr Co used	Hill Directory Co., Inc., Publishers	
1949	Do Nut Dinette The	Hill Directory Co., Inc., Publishers	
1944	Vacant	Hill Directory Co., Inc.,	Image pg. A7

FINDINGS

Year	Uses	Source
1940	Vacant	Hill Directory Co., Inc., Publishers
1935	Rigsbee Atlas M	Hill Directory Co., Inc., Publishers
1930	May Wm J	Hill Directory Co., Inc., Publishers
1925	Cash L Y	Hill Directory Co., Inc., Publishers
1920	Wilson J J	Hill Directory Co., Inc., Publishers

705 MANGUM N

Year	Uses	Source
1963	Journeyman Barbers Internatl Union of Am Local No	Hill Directory Co., Inc., Publishers
	Motion Picture Oprs Local No	Hill Directory Co., Inc., Publishers
	Natl Assn of Letter Carrier Br No	Hill Directory Co., Inc., Publishers
	Plumbers & Steamftrs Local Union No	Hill Directory Co., Inc., Publishers
	Pulp Sulphite & Paper Mill Wkrs Local No	Hill Directory Co., Inc., Publishers
	Tobacco Wkrs Internatl Union Local Nos 176 and	Hill Directory Co., Inc., Publishers
	United Brotherhood of Carpenters & Joiners Union of Am Local No	Hill Directory Co., Inc., Publishers
	Office Employees Local No	Hill Directory Co., Inc., Publishers
	Chemical Wkrs Union Local No	Hill Directory Co., Inc., Publishers
	Durham Bldg & Constn Trades Council	Hill Directory Co., Inc., Publishers
	Labor Temple	Hill Directory Co., Inc., Publishers
	Bricklayers Masons & Plstrs International Union of Am Local No	Hill Directory Co., Inc., Publishers
	Brotherhood of Pntrs Decorators & Paper Hangers of Am Local No	Hill Directory Co., Inc., Publishers
	Bus Drivers Local No	Hill Directory Co., Inc., Publishers
	Durham Central Labor Union	Hill Directory Co., Inc., Publishers
	International Assn of Bridge Structural & Ornamental Iron Wkrs L	Hill Directory Co., Inc., Publishers
	International Assn of Operative Plstrs & Cement Masons Local No	Hill Directory Co., Inc., Publishers
	International Brotherhood of Elec Wkrs Local No 533 AFof L CIO	Hill Directory Co., Inc., Publishers
	International Brotherhood of Electrical Wkrs Local No B	Hill Directory Co., Inc., Publishers
	International Brotherhood of Teamsters Chauffeurs Warehouseman a	Hill Directory Co., Inc., Publishers
	International Typographical Union Local No	Hill Directory Co., Inc., Publishers
1958	Labor Temple	Hill Directory Co., Inc., Publishers
	Brklyrs Masons & Plstrs Inter natl Union of Am Local No	Hill Directory Co., Inc., Publishers
	Brotherhood of Pntrs Decorators	Hill Directory Co., Inc., Publishers

FINDINGS

Year	Uses	Source
1958	& Paper Hngrs of Am	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	and Helpers of Am Local No	Hill Directory Co., Inc., Publishers
	Internatl Typographical Union	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Journeyman Barbers Internatl	Hill Directory Co., Inc., Publishers
	Union of Am Local No	Hill Directory Co., Inc., Publishers
	Motion Picture Oprs Local No	Hill Directory Co., Inc., Publishers
	Natl Assn of Letter Carriers	Hill Directory Co., Inc., Publishers
	Branch No	Hill Directory Co., Inc., Publishers
	Plbrs & Stmftrs Local No	Hill Directory Co., Inc., Publishers
	Policemens Union Local No	Hill Directory Co., Inc., Publishers
	Pulp Sulphite & Paper Mill Wkrs	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Ry Clk Local No	Hill Directory Co., Inc., Publishers
	Tel Wkrs Local No	Hill Directory Co., Inc., Publishers
	Tob Wkrs Internatl Union Local	Hill Directory Co., Inc., Publishers
	Nos 176 183 204 208 252 and	Hill Directory Co., Inc., Publishers
	Committee on Political Educ	Hill Directory Co., Inc., Publishers
	United Brotherhood of Carps	Hill Directory Co., Inc., Publishers
	Joiners Union of Am Local No	Hill Directory Co., Inc., Publishers
	Durham Bldg Trades	Hill Directory Co., Inc., Publishers
	Voters for Better Government	Hill Directory Co., Inc., Publishers
	Am Federation of Tchrs Local No	Hill Directory Co., Inc., Publishers
	Ofc Emps Local No	Hill Directory Co., Inc., Publishers
	Firefighters Union Local No	Hill Directory Co., Inc., Publishers
	Chem Wkrs Union Local No	Hill Directory Co., Inc., Publishers
	Durham Bldg & Constn Trade Council	Hill Directory Co., Inc., Publishers
	Brown D W Dry clnrs Inc br	Hill Directory Co., Inc., Publishers
	Street coutimed	Hill Directory Co., Inc., Publishers
	Bus Drivers Local No	Hill Directory Co., Inc., Publishers
	Durham Central Labor Union	Hill Directory Co., Inc., Publishers
	AFof L	Hill Directory Co., Inc., Publishers
	Internatl Assn of Bridge Structural	Hill Directory Co., Inc., Publishers
	& Ornamental Iron Wkrs	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Operative Plstrs & Cement Masons	Hill Directory Co., Inc., Publishers
	Internatl Assn Local No	Hill Directory Co., Inc., Publishers

FINDINGS

Year	Uses	Source
1958	Internatl Brotherhood of Elec Wkrs	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Internatl Brotherhood of Elec	Hill Directory Co., Inc., Publishers
	Wkrs Local No B	Hill Directory Co., Inc., Publishers
	Internatl Brotherhood of Teamsters	Hill Directory Co., Inc., Publishers
	Chauffeurs Warehousemen	Hill Directory Co., Inc., Publishers
1954	Vacant	Hill Directory Co., Inc., Publishers
	Labor Temple	Hill Directory Co., Inc., Publishers
	Brklyrs Masons	Hill Directory Co., Inc., Publishers
	plstrs Internati	Hill Directory Co., Inc., Publishers
	Union of Am	Hill Directory Co., Inc., Publishers
	Brotherhood of	Hill Directory Co., Inc., Publishers
	Pntrs Decorators & Paper	Hill Directory Co., Inc., Publishers
	Hngrs of Am	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Bldg & Trades	Hill Directory Co., Inc., Publishers
	Council	Hill Directory Co., Inc., Publishers
	Bus Drivers Local	Hill Directory Co., Inc., Publishers
	City Wkrs Local	Hill Directory Co., Inc., Publishers
	Union	Hill Directory Co., Inc., Publishers
	City Wkrs Local	Hill Directory Co., Inc., Publishers
	Union No	Hill Directory Co., Inc., Publishers
	Clerical Wkrs	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Durham Central	Hill Directory Co., Inc., Publishers
	Labor Union	Hill Directory Co., Inc., Publishers
	Innatl Assn of	Hill Directory Co., Inc., Publishers
	Bridge Structural & Ornamental Iron	Hill Directory Co., Inc., Publishers
	Wkrs Local	Hill Directory Co., Inc., Publishers
	Innatl Assn of Cement Fnshrs	Hill Directory Co., Inc., Publishers
	Plstrs Local	Hill Directory Co., Inc., Publishers
	Innatl Assn of	Hill Directory Co., Inc., Publishers
	Mach Bull City	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Innatl Brotherhood	Hill Directory Co., Inc., Publishers
	of Elec Wkrs	Hill Directory Co., Inc., Publishers
	Innatl Brotherhood	Hill Directory Co., Inc., Publishers
	of Elec Wkrs	Hill Directory Co., Inc., Publishers

FINDINGS

Year	Uses	Source
1954	Local No B 745	Hill Directory Co., Inc., Publishers
	Innatl Brotherhood	Hill Directory Co., Inc., Publishers
	of Pntg Prsmn	Hill Directory Co., Inc., Publishers
	& Assts Union	Hill Directory Co., Inc., Publishers
	Innatl Typographical	Hill Directory Co., Inc., Publishers
	Union Local No	Hill Directory Co., Inc., Publishers
	Journeyman Barbers	Hill Directory Co., Inc., Publishers
	Innatl Union of	Hill Directory Co., Inc., Publishers
	Am Local No	Hill Directory Co., Inc., Publishers
	Motion Picture Oprs	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Natl Assn of Letter	Hill Directory Co., Inc., Publishers
	Carriers	Hill Directory Co., Inc., Publishers
	Policemens Union	Hill Directory Co., Inc., Publishers
	Local No	Hill Directory Co., Inc., Publishers
	Pulp Sulphite	Hill Directory Co., Inc., Publishers
	Paper Mill	Hill Directory Co., Inc., Publishers
	Wkrs No	Hill Directory Co., Inc., Publishers
	Ry Clks Lodge No	Hill Directory Co., Inc., Publishers
	Tel Wkrs Local No	Hill Directory Co., Inc., Publishers
	Tel Wkrs Local No	Hill Directory Co., Inc., Publishers
	Tob Wkrs Innatl	Hill Directory Co., Inc., Publishers
	Union Local	Hill Directory Co., Inc., Publishers
	Tob Wkrs Innatl	Hill Directory Co., Inc., Publishers
	Union Local	Hill Directory Co., Inc., Publishers
	United Assn of	Hill Directory Co., Inc., Publishers
	Journey men	Hill Directory Co., Inc., Publishers
	Plmbs	Hill Directory Co., Inc., Publishers
	Stmftrs Local	Hill Directory Co., Inc., Publishers
	United Brotherhood	Hill Directory Co., Inc., Publishers
	of Carps	Hill Directory Co., Inc., Publishers
	Joiners Union	Hill Directory Co., Inc., Publishers
	of Am Local	Hill Directory Co., Inc., Publishers
	Durham Bldg	Hill Directory Co., Inc., Publishers
	Trades	Hill Directory Co., Inc., Publishers
1949	Brown D W Dry Clnrs br	Hill Directory Co., Inc., Publishers
	Labor Temple	Hill Directory Co., Inc., Publishers
	Bricklayers Masons and	Hill Directory Co., Inc., Publishers

FINDINGS

Year	Uses	Source
1949	plasterers Intl Union	Hill Directory Co., Inc., Publishers
	of Am No	Hill Directory Co., Inc., Publishers
	Brotherhood of Painters	Hill Directory Co., Inc., Publishers
	Decorators and Paper	Hill Directory Co., Inc., Publishers
	Hangers of Am Local	Hill Directory Co., Inc., Publishers
	Central Labor Union	Hill Directory Co., Inc., Publishers
	Intl Assn of Machinists	Hill Directory Co., Inc., Publishers
	Bull City Local No	Hill Directory Co., Inc., Publishers
	Intl Brotherhood of	Hill Directory Co., Inc., Publishers
	Painting Pressmn	Hill Directory Co., Inc., Publishers
	Assts Union Local No	Hill Directory Co., Inc., Publishers
	Intl Brotherhood of Electrical Workers No	Hill Directory Co., Inc., Publishers
	Intl Brotherhood of Electrical Workers No	Hill Directory Co., Inc., Publishers
	Intl Brotherhood of Electrical Workers No	Hill Directory Co., Inc., Publishers
	Intl Brotherhood of Electrical Workers Local	Hill Directory Co., Inc., Publishers
	No B 745	Hill Directory Co., Inc., Publishers
	Intl Typographical	Hill Directory Co., Inc., Publishers
	Union Local No	Hill Directory Co., Inc., Publishers
	Journeymen Barbers Intl	Hill Directory Co., Inc., Publishers
	Union of Am Local No	Hill Directory Co., Inc., Publishers
	Tobacco Workers Intl	Hill Directory Co., Inc., Publishers
	Union Local No	Hill Directory Co., Inc., Publishers
	Tobacco Workers Intl	Hill Directory Co., Inc., Publishers
	Union Local No	Hill Directory Co., Inc., Publishers
	United Assn of Journeymen Plumbers and	Hill Directory Co., Inc., Publishers
	Steamfitters Local	Hill Directory Co., Inc., Publishers
	United Brotherhood of	Hill Directory Co., Inc., Publishers
	Carpenters and Joiners	Hill Directory Co., Inc., Publishers
	Union of Am Local	Hill Directory Co., Inc., Publishers
	Nati Assn of Letter Carriers No	Hill Directory Co., Inc., Publishers
	Chem Wks Local No	Hill Directory Co., Inc., Publishers
	Sou Fed Telephone Employees Local No	Hill Directory Co., Inc., Publishers
	Intl Assn of Bridge	Hill Directory Co., Inc., Publishers
	Structural and Ornamental Iron Wkrs Local	Hill Directory Co., Inc., Publishers
	Sht Mtl Wks Union Local No	Hill Directory Co., Inc., Publishers
	Policemens Union Local No	Hill Directory Co., Inc., Publishers
	Pulp Sulphite & Paper	Hill Directory Co., Inc., Publishers
	Mill Wks Union Local	Hill Directory Co., Inc., Publishers

FINDINGS

Year	Uses	Source	
1949	Chauffeurs Teamsters	Hill Directory Co., Inc., Publishers	
	and Hlprs Union Local No	Hill Directory Co., Inc., Publishers	
	Intl Assn of Cement Finishers and Plasterers	Hill Directory Co., Inc., Publishers	
	Local No	Hill Directory Co., Inc., Publishers	
1944	Brown D W Dry Clnrs br	Hill Directory Co., Inc.,	Image pg. A7
	Labor Temple	Hill Directory Co., Inc.,	Image pg. A7
	Bricklayers Masons and	Hill Directory Co., Inc.,	Image pg. A7
	Plasterers Intl Union of	Hill Directory Co., Inc.,	Image pg. A7
	Am No	Hill Directory Co., Inc.,	Image pg. A7
	Brotherhood of Painters	Hill Directory Co., Inc.,	Image pg. A7
	and Decorators and	Hill Directory Co., Inc.,	Image pg. A7
	Paper Hangers of Am	Hill Directory Co., Inc.,	Image pg. A7
	Local No	Hill Directory Co., Inc.,	Image pg. A7
	Central Labor Union	Hill Directory Co., Inc.,	Image pg. A7
	Intl Assn of Machinists	Hill Directory Co., Inc.,	Image pg. A7
	Bull City Local No	Hill Directory Co., Inc.,	Image pg. A7
	Intl Assn Printing Pressmen and Assistants	Hill Directory Co., Inc.,	Image pg. A7
	Union Local No	Hill Directory Co., Inc.,	Image pg. A7
	Intl Brotherhood of Electrical Workers No	Hill Directory Co., Inc.,	Image pg. A7
	Intl Brotherhood of Electrical Workers Local No B 745	Hill Directory Co., Inc.,	Image pg. A7
	Intl Brotherhood of Teamsters Chauffeurs Warehousemen and Helper	Hill Directory Co., Inc.,	Image pg. A7
	Am Local No	Hill Directory Co., Inc.,	Image pg. A7
	Intl Typographical Union	Hill Directory Co., Inc.,	Image pg. A7
	Local No	Hill Directory Co., Inc.,	Image pg. A7
	Journeymen Barbers Intl	Hill Directory Co., Inc.,	Image pg. A7
	Union of Am Local No	Hill Directory Co., Inc.,	Image pg. A7
	Telephone Eirployees Local	Hill Directory Co., Inc.,	Image pg. A7
	No B 289	Hill Directory Co., Inc.,	Image pg. A7
	Tobacco Workers Intl	Hill Directory Co., Inc.,	Image pg. A7
	Union Local No	Hill Directory Co., Inc.,	Image pg. A7
	Tobacco Workers Intl	Hill Directory Co., Inc.,	Image pg. A7
	Union Local No	Hill Directory Co., Inc.,	Image pg. A7
	United Assn of Journeymen Plumbers and	Hill Directory Co., Inc.,	Image pg. A7
	Steamfitters Local	Hill Directory Co., Inc.,	Image pg. A7
	United Brotherhood of	Hill Directory Co., Inc.,	Image pg. A7
	Carpenters and Joiners	Hill Directory Co., Inc.,	Image pg. A7
	Union of Am Local	Hill Directory Co., Inc.,	Image pg. A7

FINDINGS

Year	Uses	Source	
1940	Harris Orpheus F	Hill Directory Co., Inc., Publishers	
1935	Harris Orpheus F	Hill Directory Co., Inc., Publishers	
1930	Green Mary Mrs	Hill Directory Co., Inc., Publishers	
	Harris Orpheus F	Hill Directory Co., Inc., Publishers	
1925	Green J T	Hill Directory Co., Inc., Publishers	
1920	Green J T	Hill Directory Co., Inc., Publishers	

706 MANGUM N

Year	Uses	Source
1940	Wise Lillian Mrs	Hill Directory Co., Inc., Publishers
1935	Colella Benj	Hill Directory Co., Inc., Publishers
1930	Porcelli John	Hill Directory Co., Inc., Publishers
1925	Hargis T A	Hill Directory Co., Inc., Publishers
1920	Mc Millan A R	Hill Directory Co., Inc., Publishers

707 MANGUM N

Year	Uses	Source	
1963	Union Sport Shop billiards	Hill Directory Co., Inc., Publishers	
1958	Marions Stores Inc dept store	Hill Directory Co., Inc., Publishers	
1954	Store	Hill Directory Co., Inc., Publishers	
	Marions 5 to	Hill Directory Co., Inc., Publishers	
1949	Atlas 5c to $1 00 Store	Hill Directory Co., Inc., Publishers	
1944	Atlas 5c to $1 00 Store	Hill Directory Co., Inc.,	Image pg. A7

708 MANGUM N

Year	Uses	Source
1940	Brown Dewey	Hill Directory Co., Inc., Publishers
1935	Johnson Callie M Mrs	Hill Directory Co., Inc., Publishers
1930	Johnson Callie M Mrs	Hill Directory Co., Inc., Publishers
1925	Johnson C M Mrs	Hill Directory Co., Inc., Publishers
1920	Vacant	Hill Directory Co., Inc., Publishers

709 MANGUM N

Year	Uses	Source
1925	Stallings J D	Hill Directory Co., Inc., Publishers
1920	Stallings M H Mrs	Hill Directory Co., Inc., Publishers

710 MANGUM N

Year	Uses	Source
1963	710 12 Vacant	Hill Directory Co., Inc., Publishers

FINDINGS

Year	Uses	Source	
1958	710 12 Vacant	Hill Directory Co., Inc., Publishers	
1954	710 12 Colonial Stores	Hill Directory Co., Inc., Publishers	
1949	710 12 Colo nial Stores Inc gros	Hill Directory Co., Inc., Publishers	
1944	Little Star Stores br gros	Hill Directory Co., Inc.,	Image pg. A7
1940	Penders Stores br gros	Hill Directory Co., Inc., Publishers	
1935	Penders Stores br gros	Hill Directory Co., Inc., Publishers	
1930	Penders Stores Co gro	Hill Directory Co., Inc., Publishers	
1925	Pender Stores Co	Hill Directory Co., Inc., Publishers	
1920	Campbell Charles	Hill Directory Co., Inc., Publishers	

711 MANGUM N

Year	Uses	Source
1925	Pappa Ralph	Hill Directory Co., Inc., Publishers
1920	Hessee W L	Hill Directory Co., Inc., Publishers

712 MANGUM N

Year	Uses	Source
1963	710 12 Vacant	Hill Directory Co., Inc., Publishers
1958	710 12 Vacant	Hill Directory Co., Inc., Publishers
1954	Inc gros	Hill Directory Co., Inc., Publishers
	710 12 Colonial Stores	Hill Directory Co., Inc., Publishers
1949	710 12 Colo nial Stores Inc gros	Hill Directory Co., Inc., Publishers
1930	Kirklands Cash & Service	Hill Directory Co., Inc., Publishers
1925	Vacant	Hill Directory Co., Inc., Publishers
1920	North Durham Drug Store	Hill Directory Co., Inc., Publishers

713 MANGUM N

Year	Uses	Source
1925	Colclough W 1 S	Hill Directory Co., Inc., Publishers
	Great A & P Tea Co The	Hill Directory Co., Inc., Publishers
1920	Rigsbee L G	Hill Directory Co., Inc., Publishers

714 MANGUM N

Year	Uses	Source	
1963	North Durham Drug Store	Hill Directory Co., Inc., Publishers	
1958	North Durham Drug Store	Hill Directory Co., Inc., Publishers	
1954	Store	Hill Directory Co., Inc., Publishers	
	North Durham Drug	Hill Directory Co., Inc., Publishers	
1949	North Durham Drug Store	Hill Directory Co., Inc., Publishers	
1944	North Durham Drug Store	Hill Directory Co., Inc.,	Image pg. A7

FINDINGS

Year	Uses	Source	
1940	North Durham Drug Store	Hill Directory Co., Inc., Publishers	
1935	North Durham Drug Store	Hill Directory Co., Inc., Publishers	
1930	North Durham Drug Store	Hill Directory Co., Inc., Publishers	
1925	North Durham Drug Store	Hill Directory Co., Inc., Publishers	

717 MANGUM N

Year	Uses	Source	
1963	Vicks Shoe Shop reprs	Hill Directory Co., Inc., Publishers	
1958	Vacant	Hill Directory Co., Inc., Publishers	
1954	watch mkr	Hill Directory Co., Inc., Publishers	
	TV Serv	Hill Directory Co., Inc., Publishers	
	Greens Radio	Hill Directory Co., Inc., Publishers	
	Preslar John E	Hill Directory Co., Inc., Publishers	
1949	Genl Radio & Television	Hill Directory Co., Inc., Publishers	
	Preslar John E watch mkr	Hill Directory Co., Inc., Publishers	
1944	City Radio Hospitals reprs	Hill Directory Co., Inc.,	Image pg. A7
1940	P & M Mkt meats	Hill Directory Co., Inc., Publishers	
1935	Durham Dairy Products Inc	Hill Directory Co., Inc., Publishers	
1930	Vacant	Hill Directory Co., Inc., Publishers	

719 MANGUM N

Year	Uses	Source	
1963	Rhew Linoleum & Tile Co	Hill Directory Co., Inc., Publishers	
1958	Vicks Shoe Shop repr	Hill Directory Co., Inc., Publishers	
	Carolina Hat Co cln	Hill Directory Co., Inc., Publishers	
1954	Vicks Shoe Shop	Hill Directory Co., Inc., Publishers	
	Carolina Hat Co	Hill Directory Co., Inc., Publishers	
1949	Hosiery Shop The	Hill Directory Co., Inc., Publishers	
	Carolina Hat Co	Hill Directory Co., Inc., Publishers	
1935	719 21 Gt A & P Tea Co The gros	Hill Directory Co., Inc., Publishers	
1930	719 721 Gt A & P Tea Co The	Hill Directory Co., Inc., Publishers	

721 MANGUM N

Year	Uses	Source	
1963	Vacant	Hill Directory Co., Inc., Publishers	
1958	Christys Grill	Hill Directory Co., Inc., Publishers	
1954	Christys Grill	Hill Directory Co., Inc., Publishers	
1949	Nicolaou Geo A restr	Hill Directory Co., Inc., Publishers	
1944	Vacant	Hill Directory Co., Inc.,	Image pg. A7

FINDINGS

Year	Uses	Source	
1940	A & P Food Stores br gros	Hill Directory Co., Inc., Publishers	
1935	719 21 Gt A & P Tea Co The gros	Hill Directory Co., Inc., Publishers	
1930	719 721 Gt A & P Tea Co The	Hill Directory Co., Inc., Publishers	

723 MANGUM N

Year	Uses	Source	
1963	Clark Bros Plmb Co	Hill Directory Co., Inc., Publishers	
1958	Vacant	Hill Directory Co., Inc., Publishers	
1954	Vacant	Hill Directory Co., Inc., Publishers	
1949	Market	Hill Directory Co., Inc., Publishers	
	Kirklands Grocery	Hill Directory Co., Inc., Publishers	
1944	Kirklands Grocery Market	Hill Directory Co., Inc.,	Image pg. A7
1940	Kirklands Grocery	Hill Directory Co., Inc., Publishers	
1935	Kirklands Grocery	Hill Directory Co., Inc., Publishers	
1930	clnrs	Hill Directory Co., Inc., Publishers	
	Scott & Roberts br cldo	Hill Directory Co., Inc., Publishers	

725 MANGUM N

Year	Uses	Source	
1963	Vacant	Hill Directory Co., Inc., Publishers	
1958	Vacant	Hill Directory Co., Inc., Publishers	
1954	Vuacant	Hill Directory Co., Inc., Publishers	
1949	Arrow Plmbg & Htg of	Hill Directory Co., Inc., Publishers	
	Durham Inc	Hill Directory Co., Inc., Publishers	
1944	Arrow Plumbing & Heating Co Inc	Hill Directory Co., Inc.,	Image pg. A7
1940	Factory Sales Co	Hill Directory Co., Inc., Publishers	
1935	Steves Place restr	Hill Directory Co., Inc., Publishers	
1930	Vacant	Hill Directory Co., Inc., Publishers	

729 MANGUM N

Year	Uses	Source	
1963	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1958	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1954	Nortn Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1949	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1944	M & G New and Used	Hill Directory Co., Inc.,	Image pg. A7
	Clothing Store	Hill Directory Co., Inc.,	Image pg. A7
	North Durham Barber Shop	Hill Directory Co., Inc.,	Image pg. A7
1940	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	

FINDINGS

Year	Uses	Source	
1935	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1930	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	

731 MANGUM N

Year	Uses	Source	
1963	City Ice Cream Co	Hill Directory Co., Inc., Publishers	
1958	City Ice Cream Co	Hill Directory Co., Inc., Publishers	
1954	City Ice Cream Co	Hill Directory Co., Inc., Publishers	
	confrs	Hill Directory Co., Inc., Publishers	
1949	City Ice Cream Co confrs	Hill Directory Co., Inc., Publishers	
1944	City Ice Cream Co confrs	Hill Directory Co., Inc.,	Image pg. A7
1940	City Ice Cream Co confrs	Hill Directory Co., Inc., Publishers	
	MANGUM N Contd	Hill Directory Co., Inc., Publishers	
1935	City Ice Cream Co confrs	Hill Directory Co., Inc., Publishers	
1930	City Ice Cream Co	Hill Directory Co., Inc., Publishers	

800 MANGUM N

Year	Uses	Source	
1963	800 02 Johnson Forrester Inc clns	Hill Directory Co., Inc., Publishers	
1958	800 02 Johnson Forrester Inc clnrs	Hill Directory Co., Inc., Publishers	
1954	800 02 Johnson Forrester Inc Cln	Hill Directory Co., Inc., Publishers	
1949	Best Tire Serv reprs	Hill Directory Co., Inc., Publishers	
1944	Mize Serv Sta fill sta	Hill Directory Co., Inc.,	Image pg. A7
1940	Mize Service Sta	Hill Directory Co., Inc., Publishers	
1935	Shell Eastern Petroleum Products Inc filling sta	Hill Directory Co., Inc., Publishers	
1930	Barbee W A & Co gros	Hill Directory Co., Inc., Publishers	
1925	Whitmores Bakery & Grocery	Hill Directory Co., Inc., Publishers	
1920	North Durham Electric Shoe	Hill Directory Co., Inc., Publishers	

801 MANGUM N

Year	Uses	Source	
1963	North Durham Shoe Shop reprs	Hill Directory Co., Inc., Publishers	
	North Durham Food Center	Hill Directory Co., Inc., Publishers	
1958	North Durham Shoe Shop	Hill Directory Co., Inc., Publishers	
	North Durham Food Center	Hill Directory Co., Inc., Publishers	
1954	North Durham Shoe	Hill Directory Co., Inc., Publishers	
	North Durham	Hill Directory Co., Inc., Publishers	
	Food Center	Hill Directory Co., Inc., Publishers	
1949	Durham Shoe Rebuilders br	Hill Directory Co., Inc., Publishers	

FINDINGS

605 MANGUM ST N

Year	Uses	Source	
1969	ELLIS ARTH	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

607 MANGUM ST N

Year	Uses	Source	
1995	Not Verified	R. L. Polk Co.	Image pg. A60
1990	607 707 Vacant 4 Hses	R. L. Polk Co.	Image pg. A49
1969	COXS RADIATOR SERVICE	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	MANGUM STREET ESSO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

608 MANGUM ST N

Year	Uses	Source	
1969	INGLETT MICHL B	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	LEA HUBERT V	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

612 MANGUM ST N

Year	Uses	Source	
1969	SHERMAN ANNIE P MRS BKPG SERV	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	SHERMAN ELOISE G BKPG SERV	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

635 MANGUM ST N

Year	Uses	Source	
1995	Vacant	R. L. Polk Co.	Image pg. A61

701 MANGUM ST N

Year	Uses	Source	
1995	refinishing	R. L. Polk Co.	Image pg. A60
	KELLYS PAINT & BODY SHOP auto	R. L. Polk Co.	Image pg. A60
1983	Bryants Auto Cleaning	R. L. Polk Co.	Image pg. A34
1969	FOWLERS AMOCO SERVICE	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

702 MANGUM ST N

Year	Uses	Source	
1969	JOBE BLACKLEY PLUMBING CO INC	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

FINDINGS

Year	Uses	Source	
1969	CONTRS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

704 MANGUM ST N

Year	Uses	Source	
1969	WRENNS AUTO SALES	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

705 MANGUM ST N

Year	Uses	Source	
1995	Not Verified	R. L. Polk Co.	Image pg. A60
1969	BROTHERHOOD OF PAINTERS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	UNION NO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	PLUMBERS & STEAMFITTERS LOCAL	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	WKRS LOCAL 553 AFL CIO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	WORKERS LOCAL NO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	TOBACCO WORKERS INTL UNION	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	LOCAL NOS 176 AND	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	LABOR TEMPLE	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	BRICKLAYERS MASONS & PLSTR	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	INTL UNION AM LOCAL	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	PULP SULPHITE & PAPER MILL	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	DECORATORS LOCAL	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	CARPENTERS LOCAL NO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	CONSTRUCTORS AND GENERAL	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	LABORERS LOCAL NO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	TRADES COUNCIL	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	INTERNATIONAL ASSOC IRON WKRS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	LOC 636 AFL CIO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

FINDINGS

Year	Uses	Source	
1969	INTERNATIONAL BRTHRHD ELEC	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

707 MANGUM ST N

Year	Uses	Source	
1995	CHRIST church	R. L. Polk Co.	Image pg. A60
	THE TRUE WAY CHURCH OF GOD IN	R. L. Polk Co.	Image pg. A60
1990	607 707 Vacant 4 Hses	R. L. Polk Co.	Image pg. A49
1983	Tru Way Church	R. L. Polk Co.	Image pg. A34
1969	UNION SPORT SHOP BILLIARDS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

710 MANGUM ST N

Year	Uses	Source	
1983	Vacant	R. L. Polk Co.	Image pg. A34
1969	VACANT	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

714 MANGUM ST N

Year	Uses	Source	
1995	TRIANGLE BAKING COMPANY INC	R. L. Polk Co.	Image pg. A60
1990	Triangle Baking Company Inc	R. L. Polk Co.	Image pg. A49
1983	Vacant	R. L. Polk Co.	Image pg. A34
1969	EDENS NORTH DURHAM DRUG INC	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

717 MANGUM ST N

Year	Uses	Source	
1990	Golden Comb Beauty Salon	R. L. Polk Co.	Image pg. A49
1983	Water Boy Junior Used Merchandise	R. L. Polk Co.	Image pg. A34
1969	UNIVERSAL SEWING CENTER	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	SEWING RMS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

719 MANGUM ST N

Year	Uses	Source	
1995	715 719 Not Verified 3 Hoes	R. L. Polk Co.	Image pg. A61
1990	Vacant	R. L. Polk Co.	Image pg. A49
1983	Rivera	R. L. Polk Co.	Image pg. A34
1969	VACANT	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

FINDINGS

721 MANGUM ST N

Year	Uses	Source	
1995	OBRIANT FIRE EXTINGUISHER	R. L. Polk Co.	Image pg. A61
1990	Plachta Greg Photo	R. L. Polk Co.	Image pg. A49
1983	Water Boy Jr Used Mdse	R. L. Polk Co.	Image pg. A34
1969	OLSON MUSIC CO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

723 MANGUM ST N

Year	Uses	Source	
1995	723 725 Not Verified 2 Hses	R. L. Polk Co.	Image pg. A61
1990	Vacant	R. L. Polk Co.	Image pg. A49
1983	North Durham Auto Parts Inc	R. L. Polk Co.	Image pg. A34
1969	CLARK BROTHERS PLUMBING CO CONTRS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

725 MANGUM ST N

Year	Uses	Source	
1995	723 725 Not Verified 2 Hses	R. L. Polk Co.	Image pg. A61
1990	House of Deliverance ch	R. L. Polk Co.	Image pg. A49
1983	Glenns Produce & Grocery	R. L. Polk Co.	Image pg. A34
1969	UNIVERSAL SEWING CENTER	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

729 MANGUM ST N

Year	Uses	Source	
1969	NORTH DURHAM BARBER SHOP	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

731 MANGUM ST N

Year	Uses	Source	
1983	Cisco	R. L. Polk Co.	Image pg. A34
1969	CITY ICE CREAM CO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20

800 MANGUM ST N

Year	Uses	Source	
1990	Inc Indry	R. L. Polk Co.	Image pg. A49
	Farthing Division of Johnson Forrester	R. L. Polk Co.	Image pg. A49
1983	Johnson Forrester Inc clns	R. L. Polk Co.	Image pg. A34
	Farthing Fabricare clns	R. L. Polk Co.	Image pg. A34
	Farthing Fabricare Indry	R. L. Polk Co.	Image pg. A34
	Farthing Wm L auctioneer	R. L. Polk Co.	Image pg. A34

FINDINGS

N MANGUM

601 N MANGUM

Year	Uses	Source
1979	Graham Louis	General Telephone Company of the Southeast
	Grahams Grocery	General Telephone Company of the Southeast
	Store	General Telephone Company of the Southeast

602 N MANGUM

Year	Uses	Source
1979	MR DEES LOUNGE & DISCO	General Telephone Company of the Southeast
1975	U D I SUPERMARKET	General Telephone Company of the Southeast

606 N MANGUM

Year	Uses	Source
1975	Durham Community Cannery	General Telephone Company of the Southeast

608 N MANGUM

Year	Uses	Source
1975	Inglett Michael	General Telephone Company of the Southeast

612 N MANGUM

Year	Uses	Source
1975	Sherman C B Mrs	General Telephone Company of the Southeast

701 N MANGUM

Year	Uses	Source
1979	Fowlers Amoco Service	General Telephone Company of the Southeast
1975	Fowlers Amoco Service	General Telephone Company of the Southeast

704 N MANGUM

Year	Uses	Source
1979	NORTH DURHAM USED CARS	General Telephone Company of the Southeast
1975	WRENNS AUTO SALES	General Telephone Company of the Southeast

FINDINGS

Year	Uses	Source
1975	WRENNS AUTO SALES	General Telephone Company of the Southeast

705 N MANGUM

Year	Uses	Source
1979	Brick Layers & Masons Union Local	General Telephone Company of the Southeast
1975	Plumbers & Steamfitters Local 585	General Telephone Company of the Southeast
	Laborers Union No Seven Hundred	General Telephone Company of the Southeast
	IRON WORKERS LOCAL UNION 636	General Telephone Company of the Southeast

706 N MANGUM

Year	Uses	Source
1979	Three Guys Auto Service	General Telephone Company of the Southeast

714 N MANGUM

Year	Uses	Source
1979	Eden North Durham Drug Center	General Telephone Company of the Southeast

717 N MANGUM

Year	Uses	Source
1979	Bargain House The	General Telephone Company of the Southeast
1975	TAYLOR H A SEAFOOD	General Telephone Company of the Southeast
	Taylors Seafood	General Telephone Company of the Southeast

719 N MANGUM

Year	Uses	Source
1975	Lawson Photographic Services	General Telephone Company of the Southeast
	Rivera Pictures	General Telephone Company of the Southeast

723 N MANGUM

Year	Uses	Source
1979	Phillips Robert M	General Telephone Company of the Southeast
1975	Clark Plumbing & Heating Co	General Telephone Company of the Southeast

FINDINGS

729 N MANGUM

Year	Uses	Source
1975	Loves Barber Shop	General Telephone Company of the Southeast

800 N MANGUM

Year	Uses	Source
1979	Farthing Fabricare	General Telephone Company of the Southeast
	Farthing WL	General Telephone Company of the Southeast
	Johnson Forrester Inc	General Telephone Company of the Southeast
	JOHNSON FORRESTERINC CLEANERS & LAUNDERERS	General Telephone Company of the Southeast
1975	Farthing W L	General Telephone Company of the Southeast
	JOHNSON FORRESTER INC CLEANERS & LAUNDERERS	General Telephone Company of the Southeast

801 N MANGUM

Year	Uses	Source
1975	Coles Party Store	General Telephone Company of the Southeast
	Martins Produce	General Telephone Company of the Southeast

806 N MANGUM

Year	Uses	Source
1979	MANGUM ST PHARMACY	General Telephone Company of the Southeast
1975	MANGUM ST PHARMACY	General Telephone Company of the Southeast

807 N MANGUM

Year	Uses	Source
1979	Hunt W M Plumbing & Heating Co	General Telephone Company of the Southeast
1975	HUNT W M PLUMBING & HEATING CO	General Telephone Company of the Southeast

809 N MANGUM

Year	Uses	Source
1979	Newman Shirl	General Telephone Company of the Southeast
1975	Wood Gennie	General Telephone Company of the Southeast

FINDINGS

714 N MANGUM ST

Year	Uses	Source	
2009	No Current Listing	infoUSA City Directories	
2002	IRON WORKS structural steel erect	Polk Directories	Image pg. A75
1997	TRIANGLE BAKING COMPANY grcrs rltd prds	The Polk Co. City Directories	

715 N MANGUM ST Map ID: 4

Year	Uses	Source	
2009	Labor Works Source Of Durham	infoUSA City Directories	
2002	LABOR WORKS SOURCE help sup serv	Polk Directories	Image pg. A75
1997	Stone Wanda K	The Polk Co. City Directories	
1995	715 719 Not Verified 3 Hoes	R. L. Polk Co.	Image pg. A61
1990	Triangle Womens Karate Studio	R. L. Polk Co.	Image pg. A49
1983	Vacant	R. L. Polk Co.	Image pg. A34
1969	VACANT	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
1963	Vacant	Hill Directory Co., Inc., Publishers	
1958	Swindells Launderette	Hill Directory Co., Inc., Publishers	
	Street coutimed	Hill Directory Co., Inc., Publishers	
1954	Launderette The	Hill Directory Co., Inc., Publishers	
1949	Launderette The	Hill Directory Co., Inc., Publishers	
1944	Vacant	Hill Directory Co., Inc.,	Image pg. A7
1940	National 5c to $1 00 store	Hill Directory Co., Inc., Publishers	
1935	Kroger Grocery & Baking Co	Hill Directory Co., Inc., Publishers	
	Inc The br	Hill Directory Co., Inc., Publishers	
1925	City Ice Cream Co	Hill Directory Co., Inc., Publishers	
1920	Lyon J N	Hill Directory Co., Inc., Publishers	

717 N MANGUM ST

Year	Uses	Source	
2009	Dibbsdesighns	infoUSA City Directories	
1997	Not Verified	The Polk Co. City Directories	

718 N MANGUM ST

Year	Uses	Source	
2002	Poole Timothy R	Polk Directories	Image pg. A75
	Poole Marietta D 1 El A	Polk Directories	Image pg. A75

FINDINGS

719 N MANGUM ST

Year	Uses	Source	
2009	No Current Listing	infoUSA City Directories	

721 N MANGUM ST

Year	Uses	Source	
2009	Obriants Fire Extinguisher	infoUSA City Directories	
2002	OBRIANTS FIRE EXTINGUISHER	Polk Directories	Image pg. A75
	mfg industries	Polk Directories	Image pg. A75
1997	OBRINTS FIRE EXTINGUISHER SERVICE busn svcs	The Polk Co. City Directories	

723 N MANGUM ST

Year	Uses	Source	
2009	No Current Listing	infoUSA City Directories	

725 N MANGUM ST

Year	Uses	Source	
2009	Rock Of Ages Ministries Inc	infoUSA City Directories	
2002	religious orgn	Polk Directories	Image pg. A75
	SHABACH OUTREACH MINISTRIES	Polk Directories	Image pg. A75
1997	MINUTEMAN FURNITURE STRIPPING reuphlstry furn rpr	The Polk Co. City Directories	

729 N MANGUM ST Map ID: 2

Year	Uses	Source	
1975	Loves Barber Shop	General Telephone Company of the Southeast	
1969	NORTH DURHAM BARBER SHOP	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
1963	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1958	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1954	Nortn Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1949	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1944	M & G New and Used	Hill Directory Co., Inc.,	Image pg. A7
	Clothing Store	Hill Directory Co., Inc.,	Image pg. A7
	North Durham Barber Shop	Hill Directory Co., Inc.,	Image pg. A7
1940	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1935	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	
1930	North Durham Barber Shop	Hill Directory Co., Inc., Publishers	

FINDINGS

731 N MANGUM ST — Client Entered

Year	Uses	Source	
1983	Cisco	R. L. Polk Co.	Image pg. A34
1969	CITY ICE CREAM CO	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
1963	City Ice Cream Co	Hill Directory Co., Inc., Publishers	
1958	City Ice Cream Co	Hill Directory Co., Inc., Publishers	
1954	City Ice Cream Co	Hill Directory Co., Inc., Publishers	
	confrs	Hill Directory Co., Inc., Publishers	
1949	City Ice Cream Co confrs	Hill Directory Co., Inc., Publishers	
1944	City Ice Cream Co confrs	Hill Directory Co., Inc.,	Image pg. A7
1940	City Ice Cream Co confrs	Hill Directory Co., Inc., Publishers	
	MANGUM N Contd	Hill Directory Co., Inc., Publishers	
1935	City Ice Cream Co confrs	Hill Directory Co., Inc., Publishers	
1930	City Ice Cream Co	Hill Directory Co., Inc., Publishers	

800 N MANGUM ST

Year	Uses	Source
2009	Peach	infoUSA City Directories
	Operation Breakthrough Inc	infoUSA City Directories
	Mobley Professional Carpet	infoUSA City Directories
	Pro Site Svc LLC	infoUSA City Directories
	Number 201 Tracy Hicks Barley & Assoc	infoUSA City Directories
	Udi Community Development	infoUSA City Directories
	Udi Resource Ctr	infoUSA City Directories
	Bishop Landscaping & Trucking	infoUSA City Directories
	B Edge Training & Placement SCH	infoUSA City Directories
	Multi Unit Address	infoUSA City Directories
	A Drug 24 Hour Abuse Aaaa	infoUSA City Directories
	Multi Unit Address	infoUSA City Directories
	A Drug 24 Hour Abuse Aaaa	infoUSA City Directories
	Bishop Landscaping & Trucking	infoUSA City Directories
	B Edge Training & Placement SCH	infoUSA City Directories
	Mobley Professional Carpet	infoUSA City Directories
	Operation Breakthrough Inc	infoUSA City Directories
	Peach	infoUSA City Directories
	Pro Site Svc LLC	infoUSA City Directories
	Number 201 Tracy Hicks Barley & Assoc	infoUSA City Directories
	Udi Community Development	infoUSA City Directories
	Udi Resource Ctr	infoUSA City Directories

FINDINGS

Year	Uses	Source	
1990	Farthing Division of Johnson Forrester	R. L. Polk Co.	Image pg. A49
	Inc Indry	R. L. Polk Co.	Image pg. A49
1983	Farthing Fabricare clns	R. L. Polk Co.	Image pg. A34
	Johnson Forrester Inc clns	R. L. Polk Co.	Image pg. A34
	Farthing Wm L auctioneer	R. L. Polk Co.	Image pg. A34
	Farthing Fabricare indry	R. L. Polk Co.	Image pg. A34
1979	Farthing Fabricare	General Telephone Company of the Southeast	
	Farthing WL	General Telephone Company of the Southeast	
	Johnson Forrester Inc	General Telephone Company of the Southeast	
	JOHNSON FORRESTERINC CLEANERS & LAUNDERERS	General Telephone Company of the Southeast	
1975	Farthing W L	General Telephone Company of the Southeast	
	JOHNSON FORRESTER INC CLEANERS & LAUNDERERS	General Telephone Company of the Southeast	
1969	JOHNSON FORRESTER INC CLNS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	FARTHING WM L AUCTIONEER	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
	CENTRAL UNIFORM & LINEN SUPPLY	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A20
1963	800 02 Johnson Forrester Inc clns	Hill Directory Co., Inc., Publishers	
1958	800 02 Johnson Forrester Inc clnrs	Hill Directory Co., Inc., Publishers	
1954	800 02 Johnson Forrester Inc Cln	Hill Directory Co., Inc., Publishers	
1949	Best Tire Serv reprs	Hill Directory Co., Inc., Publishers	
1944	Mize Serv Sta fill sta	Hill Directory Co., Inc.,	Image pg. A7
1940	Mize Service Sta	Hill Directory Co., Inc., Publishers	
1935	Shell Eastern Petroleum Products Inc filling sta	Hill Directory Co., Inc., Publishers	
1930	Barbee W A & Co gros	Hill Directory Co., Inc., Publishers	
1925	Whitmores Bakery & Grocery	Hill Directory Co., Inc., Publishers	
1920	North Durham Electric Shoe	Hill Directory Co., Inc., Publishers	

801 N MANGUM ST

Year	Uses	Source	
2009	M&M	infoUSA City Directories	
2002	M & M grocery stores	Polk Directories	Image pg. A75
1997	Not Verified	The Polk Co. City Directories	

W CORPORATION ST

103 W CORPORATION ST

Map ID: 3

Year	Uses	Source	
2009	Na CL	infoUSA City Directories	
	Na CL	infoUSA City Directories	
1997	MORE THAN CONQUERORS MINISTRIES religious orgs	The Polk Co. City Directories	
	MORE THAN CONQUERORS MINISTRIES religious orgs	The Polk Co. City Directories	
1995	FAITHCEN NEW LIFE churches	R. L. Polk Co.	Image pg. A55
1990	Faithcen New Life churches	R. L. Polk Co.	Image pg. A43
1983	Special Services	R. L. Polk Co.	Image pg. A28
1969	DURHAM ELECTRIC CO CONTRS	HILL DIRECTORY COMPANY PUBLISHERS	Image pg. A14
1963	Durham Elec Co	Hill Directory Co., Inc., Publishers	
	AFL CIO Committee On Political	Hill Directory Co., Inc., Publishers	
	Education	Hill Directory Co., Inc., Publishers	

204 W CORPORATION ST

Year	Uses	Source
1979	Spencer J M	General Telephone Company of the Southeast
1975	Spencer J M	General Telephone Company of the Southeast

206 W CORPORATION ST

Year	Uses	Source	
2009	207 Na CL	infoUSA City Directories	
2002	Baltazar Ernestina	Polk Directories	Image pg. A70
1997	Jacobs Wanda D	The Polk Co. City Directories	
	Johnson Antoinette	The Polk Co. City Directories	
	A Scott Antoinette S	The Polk Co. City Directories	
	A Scott Erick E	The Polk Co. City Directories	
	B Not Verified	The Polk Co. City Directories	

207 W CORPORATION ST

Year	Uses	Source	
2002	Nance Juanita W M	Polk Directories	Image pg. A70
1997	Watson Juanita E	The Polk Co. City Directories	

209 W CORPORATION ST

Year	Uses	Source	
2009	H Phelps D	infoUSA City Directories	
2002	Not Verified	Polk Directories	Image pg. A70
1997	Hughes Gloria J	The Polk Co. City Directories	

213 W CORPORATION ST

Year	Uses	Source	
2009	215 217 NCL	infoUSA City Directories	
2002	Harris Kenneth W 1a	Polk Directories	Image pg. A70
1997	Harris Kenneth W & Regina	The Polk Co. City Directories	

215 W CORPORATION ST

Year	Uses	Source	
2002	215 217 Not Verified 2 Hses	Polk Directories	Image pg. A70
1997	Not Verified	The Polk Co. City Directories	

217 W CORPORATION ST

Year	Uses	Source	
2002	215 217 Not Verified 2 Hses	Polk Directories	Image pg. A70
1997	Watson Ida	The Polk Co. City Directories	

260 W CORPORATION ST

Year	Uses	Source	
2002	Dixon Colleen	Polk Directories	Image pg. A70

APPENDIX E

Regulatory Records Documentation

InfoMap
Technologies Incorporated

Environmental FirstSearch ™ Report

Target Property:

727 MANGUM ST

DURHAM NC 27701

Job Number: 2010-1345

PREPARED FOR:

11-01-10

Tel: (610) 430-7530 *Fax: (610) 430-7535*

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Environmental FirstSearch
Search Summary Report

Target Site: 727 MANGUM ST
DURHAM NC 27701

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	10-21-10	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	10-21-10	0.50	0	0	0	0	-	0	0
CERCLIS	Y	08-31-10	0.50	0	0	0	0	-	0	0
NFRAP	Y	08-31-10	0.50	0	0	0	2	-	0	2
RCRA COR ACT	Y	09-14-10	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	09-14-10	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	09-14-10	0.25	0	0	2	-	-	0	2
Federal IC / EC	Y	10-01-10	0.15	0	0	0	-	-	0	0
ERNS	Y	10-21-10	0.15	0	0	0	-	-	0	0
Tribal Lands	Y	12-01-05	0.25	0	0	0	-	-	0	0
State/Tribal Sites	Y	06-04-10	1.00	0	0	0	3	12	0	15
State Spills 90	Y	09-29-06	0.15	0	2	0	-	-	0	2
State/Tribal SWL	Y	02-01-10	0.75	0	0	0	0	1	0	1
State/Tribal LUST	Y	10-01-10	0.33	0	3	5	8	-	0	16
State/Tribal UST/AST	Y	10-01-10	0.25	0	4	10	-	-	0	14
State/Tribal EC	Y	NA	0.15	0	0	0	-	-	0	0
State/Tribal IC	Y	06-04-10	0.15	0	0	0	-	-	0	0
State/Tribal VCP	Y	07-30-07	0.50	0	0	0	1	-	0	1
State/Tribal Brownfields	Y	09-30-09	0.50	0	1	0	4	-	0	5
Federal Other	Y	01-01-09	0.15	0	0	0	-	-	0	0
State Other	Y	06-24-10	0.25	0	0	0	-	-	0	0
- TOTALS -				0	11	17	18	13	0	59

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to InfoMap Technologies, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in InfoMap Technologies's databases. All EPA sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent NPL and state landfill 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

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Environmental FirstSearch
Site Information Report

Request Date: 11-01-10
Requestor Name: Travis Ayers
Standard: AAI

Search Type: AREA
0.00 sq mile(s)
Job Number: 2010-1345
Filtered Report

Target Site: 727 MANGUM ST
DURHAM NC 27701

Demographics

Sites: 59 **Non-Geocoded:** 0 **Population:** NA
Radon: NA

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	-78.895396	-78:53:43	**Easting:**	689698.125
Latitude:	36.001099	36::4	**Northing:**	3985918.318
Elevation:	N/A		**Zone:**	17

Comment

Comment:REDO (CHANGE LUST TO 0.33 MILES)

Additional Requests/Services

Adjacent ZIP Codes: 0 Mile(s)

ZIP Code	City Name	ST	Dist/Dir	Sel

Services:

	Requested?	Date
Fire Insurance Maps	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

Environmental FirstSearch
Sites Summary Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

TOTAL: 59 **GEOCODED:** 59 **NON GEOCODED:** 0 **SELECTED:** 0

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID	ElevDiff
1	SPILLS	AMERICAN TEXTILES SERVICES 15352/RESPONSE	800 MANGUM ST DURHAM NC 27701	0.02 NE	1	N/A
3	UST	JOHNSON FORRESTER. INC. 0-015960	800 MANGUM ST DURHAM NC 27701	0.02 NE	1	N/A
7	LUST	AMERICAN TEXTILES SERVICES NCI-015352/RESPONSE	800 MANGUM ST DURHAM NC 27701	0.02 NE	1	N/A
9	UST	HELEN FARTHING 0-215960	800 MANGUM ST DURHAM NC 27701	0.02 NE	1	N/A
11	BROWNFIELD	NORTH MANGUM STREET PROPERTIES NCBR-1107-004/ACTIVE	601 N , 603, 605, 607 MANGU DURHAM NC 27701	0.07 SW	2	N/A
12	SPILLS	EQUIPMENT MAINTENANCE 22257/CLOSED OUT	120 BROADWAY ST DURHAM NC 27701	0.09 NW	3	N/A
14	LUST	EQUIPMENT MAINTENANCE NCI-022257/CLOSED OUT	120 BROADWAY ST DURHAM NC 27701	0.09 NW	3	N/A
16	UST	EQUIPMENT MAINTENANCE INC. 0-025739	120 BROADWAY ST DURHAM NC 27701	0.09 NW	3	N/A
18	SPILLS	UNION MISSIONARY BAPTIST CHURC 19630/RESPONSE	N ROXBORO and DOWD DURHAM NC 27701	0.12 SE	4	N/A
20	LUST	UNION MISSIONARY BAPTIST CHURC NCI-019630/RESPONSE	N ROXBORO and DOWD DURHAM NC 27701	0.12 SE	4	N/A
22	UST	UNION MISSIONARY BAPTIST CHURC RA-2925	N ROXBORO AND DOWD ST DURHAM NC 27701	0.12 SE	4	N/A
24	UST	GRAHAM PROPERTY, JOHN RA-359	828 GLENDALE AVE DURHAM NC 27701	0.15 NW	5	N/A
26	UST	DONS PLUMBING CO. 0-016810	214 BROADWAY ST DURHAM NC 27701	0.16 NW	6	N/A
27	LUST	GERALD JONES COMPANY, INC. NCI-008832/CLOSED OUT	900 N MANGUM ST DURHAM NC 27701	0.18 NE	7	N/A
29	UST	GERALD JONES COMPANY, INC. RA-1378	900 N MANGUM ST DURHAM NC 27701	0.18 NE	7	N/A
31	UST	PHILLIPS ELE. CO. OF DURHAM. 0-016915	114 HUNT ST DURHAM NC 27701	0.19 SW	8	N/A
32	UST	PHILLIPS ELECTRIC COMPANY RA-4373	114 HUNT ST DURHAM NC 27701	0.19 SW	8	N/A
34	UST	THOS. SOMERVILLE CO. 0-015773	213 BROADWAY ST DURHAM NC 27701	0.20 SW	9	N/A
35	UST	JOHN WILLIAMS INVESTMENT CO. 0-015799	213 BROADWAY ST DURHAM NC 27701	0.20 SW	9	N/A
37	LUST	PLUMBING SUPPLY WAREHOUSE-FMR NCI-015960/CLOSED OUT	213 BROADWAY ST DURHAM NC 27701	0.20 SW	9	N/A
39	UST	MARTIN PROPERTY, KENNETH RA-594	600 N MANGUM DURHAM NC 27701	0.22 SW	10	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

TOTAL: 59 **GEOCODED:** 59 **NON GEOCODED:** 0 **SELECTED:** 0

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID	ElevDiff
41	LUST	MARTIN PROPERTY, KENNETH NCI-003788/CLOSED OUT	600 N MANGUM DURHAM NC 27701	0.22 SW	10	N/A
43	RCRAGN	SLOAN AUTO PARTS INC NCD986194934/VGN	509 N MANGUM DURHAM NC 27701	0.23 SW	11	N/A
44	RCRAGN	HD SUPPLY PLUMBING/HVAC LTD (HG090 NCR000141457/VGN	602 RIGSBEE AVE DURHAM NC 27701	0.24 SW	12	N/A
45	UST	FORMER TIRE KING RA-6757	500 RIGSBEE AVE DURHAM NC 27701	0.25 SW	13	N/A
47	LUST	FORMER TIRE KING NCI-033912/CURRENT RECORD	500 RIGSBEE AVE DURHAM NC 27701	0.25 SW	13	N/A
49	UST	PASCHALL PROPERTY (JOHN) RA-4626	326 W GEER ST DURHAM NC 27701	0.25 NW	14	N/A
51	LUST	PASCHALL PROPERTY (JOHN) NCI-026331/CLOSED OUT	326 W GEER ST DURHAM NC 27701	0.25 NW	14	N/A
53	LUST	WALL PROPERTY (HARVEY) NCI-033128/CURRENT RECORD	506 N MANGUM ST DURHAM NC 27701	0.27 SW	15	N/A
55	LUST	USPS RIGGSBEE NCI-008043/CLOSED OUT	715 RIGGSBEE AE DURHAM NC 27701	0.28 NW	16	N/A
57	LUST	SLATTERY RESIDENCE (MARK) NCI-010383/CURRENT RECORD	205 W TRINITY AVE DURHAM NC 27701	0.30 NW	17	N/A
59	BROWNFIELD	WRIGHTS EXECUTIVE SALES NCBR-1107-013/PENDING	403 W GEER and 721 RIGSBEE DURHAM NC 27701	0.31 NW	18	N/A
59	BROWNFIELD	WRIGHTS EXECUTIVE SALES NCBR-0407-045/PENDING	721 RIGSBEE ST DURHAM NC 27701	0.31 NW	18	N/A
60	LUST	STRAWBRIDGE STUDIOS NCI-033108/CURRENT RECORD	410 W /420 GEER ST DURHAM NC 27701	0.31 NW	19	N/A
62	LUST	FIRST BAPTIST CHURCH NCI-009181/RESPONSE	414 CLEVELAND ST DURHAM NC 27701	0.31 SW	20	N/A
64	LUST	BISHA, ROBIN PROPERTY NCI-024213/CLOSED OUT	114 W TRINITY AVE DURHAM NC 27701	0.31 NE	21	N/A
66	LUST	111 LIBERTY STREET NCI-024149/CLOSED OUT	111 LIBERTY ST DURHAM NC 27701	0.32 SW	22	N/A
68	BROWNFIELD	NU-TREAD TIRE COMPANY NCBR-0407-029/NEW	545 FOSTER ST DURHAM NC 27701	0.34 SW	23	N/A
69	LUST	SLOME, SHAWN PROPERTY NCI-033114/ARCHIVED	230 W TRINITY AVE DURHAM NC 27701	0.35 NW	24	N/A
71	STATE	CLEVELAND STREET NONCD0001514/ACTIVE	400 CLEVELAND ST DURHAM NC 27701	0.36 SW	25	N/A
72	STATE	USA RESERVE XVIII AIRBORNE CORPS NC9210022787/NFA	724 FOSTER ST DURHAM NC 27701	0.39 NW	26	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

TOTAL: 59 **GEOCODED:** 59 **NON GEOCODED:** 0 **SELECTED:** 0

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID	ElevDiff
73	NFRAP	USA RESERVE XVIII AIRBORNE CORPS NC9210022787/NFRAP-N	724 FOSTER ST DURHAM NC 27701	0.39 NW	26	N/A
74	STATE	DURHAM GAS PLANT NCD986173938/ACTIVE	708 GILBERT ST DURHAM NC 27701	0.47 SE	27	N/A
75	VCP	DURHAM GAS PLANT VC-NCD986173938/VOLUNTARY CLEANUP	708 GILBERT ST DURHAM NC 27701	0.47 SE	27	N/A
76	NFRAP	DURHAM COAL GASIFICATION PLANT NCD986173938/NFRAP-N	708 GILBERT ST DURHAM NC 27701	0.47 SE	27	N/A
76	BROWNFIELD	COFFIN SHOP NCBR-0907-007/ACTIVE	715 WASHINGTON ST DURHAM NC 27701	0.47 NW	28	N/A
77	STATE	LIGGETT AND MYERS COMPANY NCD097724009/NFA	700 WEST MAIN/114 BUCHANON DURHAM NC 27701	0.66 SW	29	N/A
78	STATE	SCARBOROUGH and HARGETT FUNERAL HO NONCD0002449/NFA	306 S ROXBORO ST DURHAM NC 27701	0.68 SW	30	N/A
79	STATE	DURHAM PUBLIC SERVICE CO PROP (FOR NONCD0002858/ACTIVE	309 BLACKWELL ST DURHAM NC 27701	0.69 SW	31	N/A
80	SWL	THERMAL REDUCTION SYSTEMS P0050/INACTIVECLOSED	817 EAST TRINITY ST DURHAM NC 27704	0.72 NE	32	N/A
81	STATE	HONEYWELL, INC NCD003198520/ACTIVE	921 HOLLOWAY ST DURHAM NC 27701	0.75 SE	33	N/A
82	STATE	BRIGHTLEAF SQUARE NONCD0001382/ACTIVE	800 WEST BLOCK MAIN ST DURHAM NC 27701	0.76 SW	34	N/A
83	STATE	EAKES CLEANERS (FORMER) NONCD0001192/ACTIVE	827 W MORGAN ST DURHAM NC 27701	0.78 SW	35	N/A
84	STATE	EAKES CLEANERS INC NONCD0001653/ACTIVE	827 W MORGAN ST DURHAM NC 27701	0.78 SW	35	N/A
85	STATE	DAUGHERTY CHEMICAL COMPANY NCD080885551/ACTIVE	307 WALKER ST DURHAM NC 27701	0.81 SE	36	N/A
86	STATE	BAZEMORE GROCERY NONCD0001904/ACTIVE	923 FRANKLIN ST DURHAM NC 27701	0.82 SE	37	N/A
87	STATE	CONTINENTAL FOREST IND/FEDERAL PAP NCD091568279/ACTIVE	923 FRANKLIN ST DURHAM NC 27701	0.82 SE	37	N/A
88	STATE	CHURCH OF EPHESUS/MODEL LAUNDRY NONCD0001500/ACTIVE	1001 HOLLOWAY ST DURHAM NC 27701	0.82 SE	38	N/A
89	STATE	SOUTHCHEM LANDFILL NCD980503148/ACTIVE	750 EAST MARKHAM AVE DURHAM NC 27701	0.86 NE	39	N/A

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

SPILLS

SEARCH ID: 20 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: AMERICAN TEXTILES SERVICES
ADDRESS: 800 MANGUM ST
DURHAM NC
DURHAM
CONTACT: E. DAWN SHATTERWHITE
SOURCE:

REV: 07/21/06
ID1: 15352
ID2:
STATUS: RESPONSE
PHONE: 919-554-0638

SITE INFORMATION

OWNER/OPERATOR: E. DAWN SHATTERWHITE
AMERICAN TEXTILE SERVICES, INC
131 FRANKLIN PARK AVE
YOUNGSVILLE NC 27596-

DATE OF RELEASE: 3/21/1994
DATE SUBMITTED: 5/1/1996
DESCRIPTION OF INCIDENT: TWO SEPARATE RELEASES CONFIRMED WITH CLOSURE REPORTS.

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

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

MATERIAL INVOLVED (2): SOLVENTS
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?: L
SITE PRIORITY: 70E
PRIORITY CODE: L
PRIORITY UPDATE: 4/16/1998

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

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

SPILLS

SEARCH ID: 20 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: AMERICAN TEXTILES SERVICES
ADDRESS: 800 MANGUM ST
DURHAM NC
DURHAM
CONTACT: E. DAWN SHATTERWHITE
SOURCE:

REV: 07/21/06
ID1: 15352
ID2:
STATUS: RESPONSE
PHONE: 919-554-0638

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 31 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: JOHNSON FORRESTER. INC.
ADDRESS: 800 MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-015960
ID2:
STATUS:
PHONE: (919) 682-5426

SITE INFORMATION

TOTAL NUMBER OF TANKS: 5

OWNER INFORMATION: AMERICAN TEXTILE SERV
131 FRANKLIN PARK AVE
YOUNGSVILLE NC 27596

PHONE: (919) 682-5426

TANK NUMBER: 2
TANK CERT NUMBER:
INSTALLATION DATE: 7/5/1976
TANK LAST USED:
TANK CLOSED: 1/17/1994
STATUS: PERMANENTLY CLOSED
CONTENTS: OTHER, HAZARDOUS
CAPACITY IN GALLONS: 5000
COMMENTS: SOLVENT
CONSTRUCTION MATERIAL: STEEL
INTERIOR: NONE
EXTERIOR: PAINT
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED: N
PERSON CONFIRMING:

TANK NUMBER: 3
TANK CERT NUMBER:
INSTALLATION DATE: 7/5/1978
TANK LAST USED:
TANK CLOSED: 1/17/1994
STATUS: PERMANENTLY CLOSED
CONTENTS: FUEL OIL
CAPACITY IN GALLONS: 10000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: NONE
EXTERIOR: PAINT
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 31 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: JOHNSON FORRESTER. INC.
ADDRESS: 800 MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-015960
ID2:
STATUS:
PHONE: (919) 682-5426

OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED: N
PERSON CONFIRMING:

TANK NUMBER: 4
TANK CERT NUMBER:
INSTALLATION DATE: 12/5/1956
TANK LAST USED:
TANK CLOSED: 12/31/1988
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 10000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: PAINT
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED: N
PERSON CONFIRMING:

TANK NUMBER: 5
TANK CERT NUMBER:
INSTALLATION DATE: 12/5/1956
TANK LAST USED:
TANK CLOSED: 12/31/1988
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 7500
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: PAINT
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED: N
PERSON CONFIRMING:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 31 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: JOHNSON FORRESTER. INC.
ADDRESS: 800 MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-015960
ID2:
STATUS:
PHONE: (919) 682-5426

TANK NUMBER:	6
TANK CERT NUMBER:	
INSTALLATION DATE:	12/5/1956
TANK LAST USED:	
TANK CLOSED:	12/31/1988
STATUS:	PERMANENTLY CLOSED
CONTENTS:	GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS:	5000
COMMENTS:	
CONSTRUCTION MATERIAL:	STEEL
INTERIOR:	UNKNOWN
EXTERIOR:	PAINT
CORROSION PROTECTION:	
LEAK DETECTION:	
PIPING MATERIAL:	UNKNOWN
PIPE CORROSION PROTECTION:	
PIPE LEAK DETECTION:	
OVERFLOW PROTECTION:	
FINANCIAL RESPONSIBILITY:	
CERTIFICATION TYPE:	
GPS SITING CONFIRMED:	N
PERSON CONFIRMING:	

REGIONAL UST DATA

UST NUMBER:	RA-2386
INCIDENT NUMBER:	15352
CD NUMBER:	
REEL NUMBER:	
REGIONAL CONTACT:	MRP
REGIONAL OFFICE:	RAL
DATE OCCURRED:	3/21/1994

RESPONSIBLE COMPANY:

AMERICAN TEXTILE SERVICES, INC
131 FRANKLIN PARK AVE
YOUNGSVILLE ,NC , 27596-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	70E
RISK:	L

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 31 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: JOHNSON FORRESTER. INC.
ADDRESS: 800 MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-015960
ID2:
STATUS:
PHONE: (919) 682-5426

RISK OF INCIDENT: L
INTERMEDIATE CONDITION:
LAND USE:

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: 3/21/1994
CURRENT STATUS: CURRENT RECORD

RBCA GROUNDWATER:
POLLUTANT TYPE: GASOLINE/DIESEL/KEROSENE
CD NUMBER:
RESPONSIBLE OWNER: 0
RESPONSIBLE OPERATOR: 0
RESPONSIBLE LANDOWNER: 0
COMMENTS: TWO SEPARATE SITES (REPORTS) A AND B AT THIS LOCATION
//Stoddard and diesel releases. -MRP//

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 39 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: AMERICAN TEXTILES SERVICES
ADDRESS: 800 MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT: E. DAWN SHATTERWHITE
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-015352
ID2: 15352
STATUS: RESPONSE
PHONE: 919-554-0638

REGIONAL UST DATA

UST NUMBER:	RA-2386
INCIDENT NUMBER:	15352
CD NUMBER:	
REEL NUMBER:	
REGIONAL CONTACT:	MRP
REGIONAL OFFICE:	RAL
DATE OCCURRED:	3/21/1994

RESPONSIBLE COMPANY:

AMERICAN TEXTILE SERVICES, INC
131 FRANKLIN PARK AVE
YOUNGSVILLE ,NC , 27596-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	70E
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	
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:	3/21/1994
CURRENT STATUS:	CURRENT RECORD
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	TWO SEPARATE SITES (REPORTS) A AND B AT THIS LOCATION

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 39 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: AMERICAN TEXTILES SERVICES
ADDRESS: 800 MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT: E. DAWN SHATTERWHITE
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-015352
ID2: 15352
STATUS: RESPONSE
PHONE: 919-554-0638

//Stoddard and diesel releases. -MRP//

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 29 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: HELEN FARTHING
ADDRESS: 800 MANGUM ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-215960
ID2:
STATUS:
PHONE: (919) XXX-XXXX

SITE INFORMATION

TOTAL NUMBER OF TANKS: 3

OWNER INFORMATION: HELEN FARTHING
1821 HILLANDALE ROAD
DURHAM NC 27705

PHONE: (919) XXX-XXXX

TANK NUMBER: 1
TANK CERT NUMBER:
INSTALLATION DATE: 1/1/1964
TANK LAST USED:
TANK CLOSED: 7/13/1994
STATUS: PERMANENTLY CLOSED
CONTENTS: OTHER, PETROLEUM
CAPACITY IN GALLONS: 1000
COMMENTS: MINERAL SPIRITS
CONSTRUCTION MATERIAL: STEEL
INTERIOR: NONE
EXTERIOR: NONE
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED: N
PERSON CONFIRMING:

TANK NUMBER: 2
TANK CERT NUMBER:
INSTALLATION DATE: 1/1/1964
TANK LAST USED:
TANK CLOSED: 7/13/1994
STATUS: PERMANENTLY CLOSED
CONTENTS: OTHER, PETROLEUM
CAPACITY IN GALLONS: 1000
COMMENTS: MINERAL SPIRITS
CONSTRUCTION MATERIAL: STEEL
INTERIOR: NONE
EXTERIOR: NONE
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 29 **DIST/DIR:** 0.02 NE **ELEVATION:** 371 **MAP ID:** 1

NAME: HELEN FARTHING
ADDRESS: 800 MANGUM ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-215960
ID2:
STATUS:
PHONE: (919) XXX-XXXX

OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED: N
PERSON CONFIRMING:

TANK NUMBER: 3
TANK CERT NUMBER:
INSTALLATION DATE: 1/1/1964
TANK LAST USED:
TANK CLOSED: 7/13/1994
STATUS: PERMANENTLY CLOSED
CONTENTS: OTHER, PETROLEUM
CAPACITY IN GALLONS: 1000
COMMENTS: MINERAL SPIRITS
CONSTRUCTION MATERIAL: STEEL
INTERIOR: NONE
EXTERIOR: NONE
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED: N
PERSON CONFIRMING:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

BROWNFIELD

SEARCH ID: 55 **DIST/DIR:** 0.07 SW **ELEVATION:** 386 **MAP ID:** 2

NAME: NORTH MANGUM STREET PROPERTIES
ADDRESS: 601 N , 603, 605, 607 MANGUM 103,
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 3/31/08
ID1: NCBR-1107-004
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

PROSPECTIVE DEVELOPER: TTO V, LLC
FAC ELIGIBILITY: ACTIVE = ACTIVE ELIGBLE PROJECT
DESCRIPTION:

HISTORIC INFORMATION

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

SPILLS

SEARCH ID: 21 **DIST/DIR:** 0.09 NW **ELEVATION:** 386 **MAP ID:** 3

NAME: EQUIPMENT MAINTENANCE
ADDRESS: 120 BROADWAY ST
DURHAM NC
DURHAM
CONTACT: TOMMY SMITH
SOURCE:

REV: 07/21/06
ID1: 22257
ID2:
STATUS: CLOSED OUT
PHONE: 8004339326

SITE INFORMATION

OWNER/OPERATOR: TOMMY SMITH
EQUIPMENT MAINTENANCE
120 BROADWAY ST.
DURHAM NC 27722-

DATE OF RELEASE: 5/13/1996
DATE SUBMITTED: 8/29/1996
DESCRIPTION OF INCIDENT: 11 PPM OandG DETECTED BELOW WAST OIL UST

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

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:
NAME(S) OF CONTAMINATED WELLS:

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

STATUS INFORMATION:
LAST MODIFIED: 10/31/2000
INCIDENT PHASE: CLOSED OUT
NOV ISSUED:
NORR ISSUED:
45 DAY REPORT:
CORRECTIVE ACTION PLAN:
CLOSURE REQ DATE:
CLOSE-OUT REPORT: 8/25/2000

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

SPILLS

SEARCH ID: 21 **DIST/DIR:** 0.09 NW **ELEVATION:** 386 **MAP ID:** 3

NAME: EQUIPMENT MAINTENANCE
ADDRESS: 120 BROADWAY ST
DURHAM NC
DURHAM
CONTACT: TOMMY SMITH
SOURCE:

REV: 07/21/06
ID1: 22257
ID2:
STATUS: CLOSED OUT
PHONE: 8004339326

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 41 **DIST/DIR:** 0.09 NW **ELEVATION:** 386 **MAP ID:** 3

NAME: EQUIPMENT MAINTENANCE
ADDRESS: 120 BROADWAY ST
DURHAM NC 27722
DURHAM
CONTACT: TOMMY SMITH
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-022257
ID2: 22257
STATUS: CLOSED OUT
PHONE: 8004339326

REGIONAL UST DATA

UST NUMBER:	RA-3510
INCIDENT NUMBER:	22257
CD NUMBER:	167
REEL NUMBER:	167
REGIONAL CONTACT:	MRP
REGIONAL OFFICE:	RAL
DATE OCCURRED:	5/13/1996

RESPONSIBLE COMPANY:

EQUIPMENT MAINTENANCE
120 BROADWAY ST.
DURHAM ,NC , 27722-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	1
SITE PRIORITY:	
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	IND
CORRECTIVE ACTION PLAN:	
RBCA:	SOIL TO GROUNDWATER
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	8/7/2000
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	5/13/1996
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	OTHER PETROLEUM PROD.
CD NUMBER:	167
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	THIS REPORT WAS REVIEWED BY KCG-WSRO. (ZMB)

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 41 **DIST/DIR:** 0.09 NW **ELEVATION:** 386 **MAP ID:** 3

NAME: EQUIPMENT MAINTENANCE
ADDRESS: 120 BROADWAY ST
DURHAM NC 27722
DURHAM
CONTACT: TOMMY SMITH
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-022257
ID2: 22257
STATUS: CLOSED OUT
PHONE: 8004339326

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 25 **DIST/DIR:** 0.09 NW **ELEVATION:** 386 **MAP ID:** 3

NAME: EQUIPMENT MAINTENANCE INC.
ADDRESS: 120 BROADWAY ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-025739
ID2:
STATUS:
PHONE: (919) 688-0194

SITE INFORMATION

TOTAL NUMBER OF TANKS: 1

OWNER INFORMATION: EQUIPMENT MAINTENANCE INC.
P.O. BOX 71451
DURHAM NC 27722

PHONE: (919) 688-0194

TANK NUMBER: 1
TANK CERT NUMBER:
INSTALLATION DATE: 9/21/1989
TANK LAST USED:
TANK CLOSED: 5/13/1996
STATUS: PERMANENTLY CLOSED
CONTENTS: OIL, NEW/USED/MIXTURE
CAPACITY IN GALLONS: 550
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: CATHODIC PROTECTION
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: PVC
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED: N
PERSON CONFIRMING:

REGIONAL UST DATA

UST NUMBER: RA-3510
INCIDENT NUMBER: 22257
CD NUMBER: 167
REEL NUMBER: 167
REGIONAL CONTACT: MRP
REGIONAL OFFICE: RAL
DATE OCCURRED: 5/13/1996

RESPONSIBLE COMPANY:

EQUIPMENT MAINTENANCE
120 BROADWAY ST.
DURHAM ,NC , 27722-

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 25 **DIST/DIR:** 0.09 NW **ELEVATION:** 386 **MAP ID:** 3

NAME: EQUIPMENT MAINTENANCE INC.
ADDRESS: 120 BROADWAY ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-025739
ID2:
STATUS:
PHONE: (919) 688-0194

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	1
SITE PRIORITY:	
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	IND
CORRECTIVE ACTION PLAN:	
RBCA:	SOIL TO GROUNDWATER
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	8/7/2000
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	5/13/1996
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	OTHER PETROLEUM PROD.
CD NUMBER:	167
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	THIS REPORT WAS REVIEWED BY KCG-WSRO. (ZMB)

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

SPILLS

SEARCH ID: 22 **DIST/DIR:** 0.12 SE **ELEVATION:** 378 **MAP ID:** 4

NAME: UNION MISSIONARY BAPTIST CHURC
ADDRESS: N ROXBORO and DOWD
DURHAM NC
DURHAM
CONTACT: KENNETH HAMMOND
SOURCE:

REV: 07/21/06
ID1: 19630
ID2:
STATUS: RESPONSE
PHONE: 919-688-1304

SITE INFORMATION

OWNER/OPERATOR: KENNETH HAMMOND
UNION BAPTIST CHURCH
904 N ROXBORO STREET
DURHAM NC 27701-

DATE OF RELEASE: 9/28/1998
DATE SUBMITTED: 1/29/1999
DESCRIPTION OF INCIDENT: CONTAM. SOIL ASSOC. WITH THE REMOVAL OF 2 7500 GASOLINE and 1 7500 GALLON KERO TANKS

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

MATERIAL INVOLVED (1): GASOLINE
AMOUNT LOST (1):
AMOUNT RECOVERED (1): NONE

MATERIAL INVOLVED (2): KEROSENE
AMOUNT LOST (2): UNKNOWN
AMOUNT RECOVERED (2): NONE

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

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

PRIORITY INFORMATION:
RISK SITE?: L
SITE PRIORITY: E
PRIORITY CODE: E
PRIORITY UPDATE: 3/8/1999

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

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

SPILLS

SEARCH ID: 22 **DIST/DIR:** 0.12 SE **ELEVATION:** 378 **MAP ID:** 4

NAME: UNION MISSIONARY BAPTIST CHURC
ADDRESS: N ROXBORO and DOWD
DURHAM NC
DURHAM
CONTACT: KENNETH HAMMOND
SOURCE:

REV: 07/21/06
ID1: 19630
ID2:
STATUS: RESPONSE
PHONE: 919-688-1304

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 51 **DIST/DIR:** 0.12 SE **ELEVATION:** 378 **MAP ID:** 4

NAME: UNION MISSIONARY BAPTIST CHURC
ADDRESS: N ROXBORO and DOWD
DURHAM NC 27701
DURHAM
CONTACT: KENNETH HAMMOND
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-019630
ID2: 19630
STATUS: RESPONSE
PHONE: 919-688-1304

REGIONAL UST DATA

UST NUMBER:	RA-2925
INCIDENT NUMBER:	19630
CD NUMBER:	
REEL NUMBER:	
REGIONAL CONTACT:	MRP
REGIONAL OFFICE:	RAL
DATE OCCURRED:	9/28/1998

RESPONSIBLE COMPANY:

UNION BAPTIST CHURCH
904 N ROXBORO STREET
DURHAM ,NC , 27701-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	L
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	9/28/1998
CURRENT STATUS:	CURRENT RECORD
RBCA GROUNDWATER:	
POLLUTANT TYPE:	
CD NUMBER:	
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 51 **DIST/DIR:** 0.12 SE **ELEVATION:** 378 **MAP ID:** 4

NAME: UNION MISSIONARY BAPTIST CHURC
ADDRESS: N ROXBORO and DOWD
DURHAM NC 27701
DURHAM
CONTACT: KENNETH HAMMOND
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-019630
ID2: 19630
STATUS: RESPONSE
PHONE: 919-688-1304

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 37 **DIST/DIR:** 0.12 SE **ELEVATION:** 378 **MAP ID:** 4

NAME: UNION MISSIONARY BAPTIST CHURC
ADDRESS: N ROXBORO AND DOWD ST
DURHAM NC 27701
DURHAM
CONTACT: KENNETH HAMMOND
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-2925
ID2:
STATUS:
PHONE: 919-688-1304

SITE INFORMATION

REGIONAL UST DATA

UST NUMBER:	RA-2925
INCIDENT NUMBER:	19630
CD NUMBER:	
REEL NUMBER:	
REGIONAL CONTACT:	MRP
REGIONAL OFFICE:	RAL
DATE OCCURRED:	9/28/1998

RESPONSIBLE COMPANY:

UNION BAPTIST CHURCH
904 N ROXBORO STREET
DURHAM ,NC , 27701-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	L
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	9/28/1998
CURRENT STATUS:	CURRENT RECORD
RBCA GROUNDWATER:	
POLLUTANT TYPE:	
CD NUMBER:	
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 37 **DIST/DIR:** 0.12 SE **ELEVATION:** 378 **MAP ID:** 4

NAME: UNION MISSIONARY BAPTIST CHURC
ADDRESS: N ROXBORO AND DOWD ST
DURHAM NC 27701
DURHAM
CONTACT: KENNETH HAMMOND
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-2925
ID2:
STATUS:
PHONE: 919-688-1304

RESPONSIBLE LANDOWNER: 0
COMMENTS:

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 28 **DIST/DIR:** 0.15 NW **ELEVATION:** 382 **MAP ID:** 5

NAME: GRAHAM PROPERTY, JOHN
ADDRESS: 828 GLENDALE AVE
DURHAM NC 27701
DURHAM
CONTACT: JOHN GRAHAM
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-359
ID2:
STATUS:
PHONE: 9194772601

SITE INFORMATION

REGIONAL UST DATA

UST NUMBER:	RA-359
INCIDENT NUMBER:	
CD NUMBER:	167
REEL NUMBER:	167
REGIONAL CONTACT:	MRP
REGIONAL OFFICE:	RAL
DATE OCCURRED:	7/15/1997

RESPONSIBLE COMPANY:

2013 DARTMOUTH DR.
DURHAM ,NC , 27705-

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:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	10/15/2000
CONTAMINATION:	NONE
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	7/15/1997
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	167
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 28 **DIST/DIR:** 0.15 NW **ELEVATION:** 382 **MAP ID:** 5

NAME: GRAHAM PROPERTY, JOHN
ADDRESS: 828 GLENDALE AVE
DURHAM NC 27701
DURHAM
CONTACT: JOHN GRAHAM
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-359
ID2:
STATUS:
PHONE: 9194772601

RESPONSIBLE LANDOWNER: 0
COMMENTS: reviewed by WSRO

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 24 **DIST/DIR:** 0.16 NW **ELEVATION:** 384 **MAP ID:** 6

NAME: DONS PLUMBING CO.
ADDRESS: 214 BROADWAY ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-016810
ID2:
STATUS:
PHONE: (919) 682-1258

SITE INFORMATION

TOTAL NUMBER OF TANKS:	1
OWNER INFORMATION:	DONS PLUMBING CO. 214 BROADWAY STREET DURHAM NC 27701
PHONE:	(919) 682-1258
TANK NUMBER:	1
TANK CERT NUMBER:	
INSTALLATION DATE:	2/28/1980
TANK LAST USED:	
TANK CLOSED:	9/30/1989
STATUS:	PERMANENTLY CLOSED
CONTENTS:	GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS:	550
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:	

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 44 **DIST/DIR:** 0.18 NE **ELEVATION:** 391 **MAP ID:** 7

NAME: GERALD JONES COMPANY, INC.
ADDRESS: 900 N MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT: GERALD JONES
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-008832
ID2: 8832
STATUS: CLOSED OUT
PHONE:

REGIONAL UST DATA

UST NUMBER:	RA-1378
INCIDENT NUMBER:	8832
CD NUMBER:	44
REEL NUMBER:	103
REGIONAL CONTACT:	STA
REGIONAL OFFICE:	RAL
DATE OCCURRED:	6/27/1990

RESPONSIBLE COMPANY:

GERALD JONES COMPANY INC
900 N MANGUM ST
DURHAM ,NC , 27702-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	0
RISK:	
RISK OF INCIDENT:	
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	10/17/1990
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	44
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 44 **DIST/DIR:** 0.18 NE **ELEVATION:** 391 **MAP ID:** 7

NAME: GERALD JONES COMPANY, INC.
ADDRESS: 900 N MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT: GERALD JONES
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-008832
ID2: 8832
STATUS: CLOSED OUT
PHONE:

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 27 **DIST/DIR:** 0.18 NE **ELEVATION:** 391 **MAP ID:** 7

NAME: GERALD JONES COMPANY, INC.
ADDRESS: 900 N MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT: GERALD JONES
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-1378
ID2:
STATUS:
PHONE:

SITE INFORMATION

REGIONAL UST DATA

UST NUMBER:	RA-1378
INCIDENT NUMBER:	8832
CD NUMBER:	44
REEL NUMBER:	103
REGIONAL CONTACT:	STA
REGIONAL OFFICE:	RAL
DATE OCCURRED:	6/27/1990

RESPONSIBLE COMPANY:

GERALD JONES COMPANY INC
900 N MANGUM ST
DURHAM ,NC , 27702-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	0
RISK:	
RISK OF INCIDENT:	
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	10/17/1990
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	44
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 27 **DIST/DIR:** 0.18 NE **ELEVATION:** 391 **MAP ID:** 7

NAME: GERALD JONES COMPANY, INC.
ADDRESS: 900 N MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT: GERALD JONES
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-1378
ID2:
STATUS:
PHONE:

RESPONSIBLE LANDOWNER: 0
COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 34 **DIST/DIR:** 0.19 SW **ELEVATION:** 377 **MAP ID:** 8

NAME: PHILLIPS ELE. CO. OF DURHAM.
ADDRESS: 114 HUNT ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-016915
ID2:
STATUS:
PHONE: (919) 688-0382

SITE INFORMATION

TOTAL NUMBER OF TANKS: 1

OWNER INFORMATION: ROBERT PHILLIPS
205 BROADWAY ST
DURHAM NC 27701

PHONE: (919) 688-0382

TANK NUMBER: 1
TANK CERT NUMBER:
INSTALLATION DATE: 10/2/1982
TANK LAST USED:
TANK CLOSED: 10/31/1992
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 1000
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:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 35 **DIST/DIR:** 0.19 SW **ELEVATION:** 377 **MAP ID:** 8

NAME: PHILLIPS ELECTRIC COMPANY
ADDRESS: 114 HUNT ST
DURHAM NC 27701
DURHAM
CONTACT: ROBERT PHILLIPS
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-4373
ID2:
STATUS:
PHONE: 9196880382

SITE INFORMATION

REGIONAL UST DATA

UST NUMBER:	RA-4373
INCIDENT NUMBER:	
CD NUMBER:	44
REEL NUMBER:	104
REGIONAL CONTACT:	STA
REGIONAL OFFICE:	RAL
DATE OCCURRED:	11/18/1992

RESPONSIBLE COMPANY:

PHILLIPS ELECTRIC COMPANY
114 HUNT STREET
DURHAM ,NC , 27701-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	
RISK:	
RISK OF INCIDENT:	
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	12/10/1992
CONTAMINATION:	NONE
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	44
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 35 **DIST/DIR:** 0.19 SW **ELEVATION:** 377 **MAP ID:** 8

NAME: PHILLIPS ELECTRIC COMPANY
ADDRESS: 114 HUNT ST
DURHAM NC 27701
DURHAM
CONTACT: ROBERT PHILLIPS
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-4373
ID2:
STATUS:
PHONE: 9196880382

RESPONSIBLE LANDOWNER: 0
COMMENTS:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 36 **DIST/DIR:** 0.20 SW **ELEVATION:** 381 **MAP ID:** 9

NAME: THOS. SOMERVILLE CO.
ADDRESS: 213 BROADWAY ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-015773
ID2:
STATUS:
PHONE: (919) 682-0491

SITE INFORMATION

TOTAL NUMBER OF TANKS: 1

OWNER INFORMATION: THOS. SOMERVILLE CO.
213 BROADWAY STREET
DURHAM NC 27701

PHONE: (919) 682-0491

TANK NUMBER: 1
TANK CERT NUMBER:
INSTALLATION DATE: 12/5/1971
TANK LAST USED:
TANK CLOSED: 1/5/1980
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 275
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
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:

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 30 **DIST/DIR:** 0.20 SW **ELEVATION:** 381 **MAP ID:** 9

NAME: JOHN WILLIAMS INVESTMENT CO.
ADDRESS: 213 BROADWAY ST
DURHAM NC 27702
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-015799
ID2:
STATUS:
PHONE: (919) 489-2155

SITE INFORMATION

TOTAL NUMBER OF TANKS:	1
OWNER INFORMATION:	JOHN WILLIAMS INVESTMENT CO. 213 BROADWAY STREET DURHAM NC 27702
PHONE:	(919) 489-2155
TANK NUMBER:	1
TANK CERT NUMBER:	
INSTALLATION DATE:	5/18/1971
TANK LAST USED:	1/6/1981
TANK CLOSED:	11/10/1993
STATUS:	PERMANENTLY CLOSED
CONTENTS:	GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS:	1000
COMMENTS:	
CONSTRUCTION MATERIAL:	STEEL
INTERIOR:	UNKNOWN
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:	

REGIONAL UST DATA

UST NUMBER:	RA-2482
INCIDENT NUMBER:	15960
CD NUMBER:	168
REEL NUMBER:	173
REGIONAL CONTACT:	STA
REGIONAL OFFICE:	RAL
DATE OCCURRED:	10/11/1993

RESPONSIBLE COMPANY:

JOHN WILLIAMS
2110 BANBURY RD.
RALEIGH ,NC , 27608-

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 30 **DIST/DIR:** 0.20 SW **ELEVATION:** 381 **MAP ID:** 9

NAME: JOHN WILLIAMS INVESTMENT CO.
ADDRESS: 213 BROADWAY ST
DURHAM NC 27702
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: 0-015799
ID2:
STATUS:
PHONE: (919) 489-2155

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	20E
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	4/4/2000
CASE CLOSED:	10/26/2000
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	10/11/1993
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	168
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	MINOR SOIL CONTAMINATION..

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 47 **DIST/DIR:** 0.20 SW **ELEVATION:** 381 **MAP ID:** 9

NAME: PLUMBING SUPPLY WAREHOUSE-FMR
ADDRESS: 213 BROADWAY ST
DURHAM NC 27701
DURHAM
CONTACT: JOHN WILLIAMS
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-015960
ID2: 15960
STATUS: CLOSED OUT
PHONE: 919-682-2054

REGIONAL UST DATA

UST NUMBER:	RA-2482
INCIDENT NUMBER:	15960
CD NUMBER:	168
REEL NUMBER:	173
REGIONAL CONTACT:	STA
REGIONAL OFFICE:	RAL
DATE OCCURRED:	10/11/1993

RESPONSIBLE COMPANY:

JOHN WILLIAMS
2110 BANBURY RD.
RALEIGH ,NC , 27608-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	20E
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	4/4/2000
CASE CLOSED:	10/26/2000
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	10/11/1993
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	168
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	MINOR SOIL CONTAMINATION..

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 47 **DIST/DIR:** 0.20 SW **ELEVATION:** 381 **MAP ID:** 9

NAME: PLUMBING SUPPLY WAREHOUSE-FMR
ADDRESS: 213 BROADWAY ST
DURHAM NC 27701
DURHAM
CONTACT: JOHN WILLIAMS
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-015960
ID2: 15960
STATUS: CLOSED OUT
PHONE: 919-682-2054

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 32 **DIST/DIR:** 0.22 SW **ELEVATION:** 410 **MAP ID:** 10

NAME: MARTIN PROPERTY, KENNETH
ADDRESS: 600 N MANGUM
DURHAM NC 27701
DURHAM
CONTACT: KEN MARTIN
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-594
ID2:
STATUS:
PHONE: 9192864166

SITE INFORMATION

REGIONAL UST DATA

UST NUMBER:	RA-594
INCIDENT NUMBER:	3788
CD NUMBER:	44
REEL NUMBER:	104
REGIONAL CONTACT:	STA
REGIONAL OFFICE:	RAL
DATE OCCURRED:	10/27/1988

RESPONSIBLE COMPANY:

DURHAM AUTO BODY
722 IREDELL STREET
DURHAM ,NC , 27705-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	55E
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	8/7/1989
CONTAMINATION:	GROUNDWATER/BOTH
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	44
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 32 **DIST/DIR:** 0.22 SW **ELEVATION:** 410 **MAP ID:** 10

NAME: MARTIN PROPERTY, KENNETH
ADDRESS: 600 N MANGUM
DURHAM NC 27701
DURHAM
CONTACT: KEN MARTIN
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-594
ID2:
STATUS:
PHONE: 9192864166

RESPONSIBLE LANDOWNER: 0
COMMENTS: CLOSED OUT 8/89!///errata box 7/23/09

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 45 **DIST/DIR:** 0.22 SW **ELEVATION:** 410 **MAP ID:** 10

NAME: MARTIN PROPERTY, KENNETH
ADDRESS: 600 N MANGUM
DURHAM NC 27701
DURHAM
CONTACT: KEN MARTIN
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-003788
ID2: 3788
STATUS: CLOSED OUT
PHONE: 9192864166

REGIONAL UST DATA

UST NUMBER:	RA-594
INCIDENT NUMBER:	3788
CD NUMBER:	44
REEL NUMBER:	104
REGIONAL CONTACT:	STA
REGIONAL OFFICE:	RAL
DATE OCCURRED:	10/27/1988

RESPONSIBLE COMPANY:

DURHAM AUTO BODY
722 IREDELL STREET
DURHAM ,NC , 27705-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	55E
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	8/7/1989
CONTAMINATION:	GROUNDWATER/BOTH
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	44
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	CLOSED OUT 8/89!///errata box 7/23/09

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 45 **DIST/DIR:** 0.22 SW **ELEVATION:** 410 **MAP ID:** 10

NAME: MARTIN PROPERTY, KENNETH
ADDRESS: 600 N MANGUM
DURHAM NC 27701
DURHAM
CONTACT: KEN MARTIN
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-003788
ID2: 3788
STATUS: CLOSED OUT
PHONE: 9192864166

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

RCRAGN

SEARCH ID: 4 **DIST/DIR:** 0.23 SW **ELEVATION:** 407 **MAP ID:** 11

NAME: SLOAN AUTO PARTS INC
ADDRESS: 509 N MANGUM
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: EPA

REV: 7/14/10
ID1: NCD986194934
ID2:
STATUS: VGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: LARRY SLOAN
509 N MANGUM
DURHAM NC 27701

PHONE: 9199567100

UNIVERSE INFORMATION:

NAIC INFORMATION

ENFORCEMENT INFORMATION:

AGENCY: S - STATE **DATE:** 10/19/1995
TYPE: 120 - WRITTEN INFORMAL

AGENCY: S - STATE **DATE:** 10/19/1995
TYPE: 120 - WRITTEN INFORMAL

VIOLATION INFORMATION:

VIOLATION NUMBER: 0001 **RESPONSIBLE:** S - STATE
DETERMINED: 10/19/1995 **DETERMINED BY:** S - STATE
CITATION: 262.41
RESOLVED: 11/13/1995
TYPE: GENERATOR-GENERAL REQUIREMENTS

HAZARDOUS WASTE INFORMATION:

Corrosive waste
Chromium
Reactive waste
Endrin(1,2,3,4,10,10-hexachloro-1,7-epoxy- 1,4,4a,5,6,7,8,8a-octahydro-1,4-endo, endo-5,8-dimeth- ano-naphthalene)
Arsenic
Barium
Cadmium
Lead
Silver
Mercury
Selenium

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

RCRAGN

SEARCH ID: 3 **DIST/DIR:** 0.24 SW **ELEVATION:** 378 **MAP ID:** 12

NAME: HD SUPPLY PLUMBING/HVAC LTD (HG0903)
ADDRESS: 602 RIGSBEE AVE
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: EPA

REV: 7/14/10
ID1: NCR000141457
ID2:
STATUS: VGN
PHONE:

CONTACT INFORMATION:

MARTY J LASKEY
770-852-9073
MARTY.LASKEY HDSUPPLY.COM

UNIVERSE INFORMATION:

GOVERNMENT PERFORMANCE AND RESULTS ACT (GPRA)

GPRA CA BASELINE UNIVERSE:	*NO*
GPRA CA 2008:	*NO*

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA:	NO
SUBJCA TSD 3004:	NO
SUBJCA NON TSD:	NO
SUBJCA TSD DISCRETION:	NO
PERMIT WORKLOAD:	-----
CLOSURE WORKLOAD:	-----
POST CLOSURE WORKLOAD:	-----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS:	-----
CORRECTIVE ACTION WORKLOAD:	NO
GENERATOR STATUS:	CEG
TRANSPORTER:	NO
UNIVERSAL WASTE:	NO
RECYCLER:	NO
USED OIL:	NO
IMPORTER:	NO
MIXED WASTE GENERATOR:	NO
ONSITE BURNER EXEMPT:	NO
FURNACE EXEMPTION:	NO
UNDERGROUND INJECTION:	NO
NAIC 1:	Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers
NAIC 2:	
NAIC 3:	
NAIC 4:	

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 26 **DIST/DIR:** 0.25 SW **ELEVATION:** 367 **MAP ID:** 13

NAME: FORMER TIRE KING
ADDRESS: 500 RIGSBEE AVE
DURHAM NC 27701
DURHAM
CONTACT: JERRY HORNE
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-6757
ID2:
STATUS:
PHONE: 9198801008

SITE INFORMATION

REGIONAL UST DATA

UST NUMBER:	RA-6757
INCIDENT NUMBER:	33912
CD NUMBER:	0
REEL NUMBER:	0
REGIONAL CONTACT:	WER
REGIONAL OFFICE:	RAL
DATE OCCURRED:	7/16/2010

RESPONSIBLE COMPANY:

PO Box 1928
Durham ,NC , 27702

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	
RISK:	
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:	NO
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	7/9/2010
CURRENT STATUS:	CURRENT RECORD
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	0
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 26 **DIST/DIR:** 0.25 SW **ELEVATION:** 367 **MAP ID:** 13

NAME: FORMER TIRE KING
ADDRESS: 500 RIGSBEE AVE
DURHAM NC 27701
DURHAM
CONTACT: JERRY HORNE
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-6757
ID2:
STATUS:
PHONE: 9198801008

RESPONSIBLE LANDOWNER: 0
COMMENTS:

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 43 **DIST/DIR:** 0.25 SW **ELEVATION:** 367 **MAP ID:** 13

NAME: FORMER TIRE KING
ADDRESS: 500 RIGSBEE AVE
DURHAM NC 27701
DURHAM
CONTACT: JERRY HORNE
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-033912
ID2: 33912
STATUS: CURRENT RECORD
PHONE: 9198801008

REGIONAL UST DATA

UST NUMBER:	RA-6757
INCIDENT NUMBER:	33912
CD NUMBER:	0
REEL NUMBER:	0
REGIONAL CONTACT:	WER
REGIONAL OFFICE:	RAL
DATE OCCURRED:	7/16/2010

RESPONSIBLE COMPANY:

PO BOX 1928
DURHAM ,NC , 27702

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	
RISK:	
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:	NO
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	7/9/2010
CURRENT STATUS:	CURRENT RECORD
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	0
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 43 **DIST/DIR:** 0.25 SW **ELEVATION:** 367 **MAP ID:** 13

NAME: FORMER TIRE KING
ADDRESS: 500 RIGSBEE AVE
DURHAM NC 27701
DURHAM
CONTACT: JERRY HORNE
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-033912
ID2: 33912
STATUS: CURRENT RECORD
PHONE: 9198801008

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 33 **DIST/DIR:** 0.25 NW **ELEVATION:** 377 **MAP ID:** 14

NAME: PASCHALL PROPERTY (JOHN)
ADDRESS: 326 W GEER ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-4626
ID2:
STATUS:
PHONE: 9196880546

SITE INFORMATION

REGIONAL UST DATA

UST NUMBER:	RA-4626
INCIDENT NUMBER:	26331
CD NUMBER:	307
REEL NUMBER:	204
REGIONAL CONTACT:	JFM
REGIONAL OFFICE:	RAL
DATE OCCURRED:	6/10/2003

RESPONSIBLE COMPANY:

JOHN PASCHALL
1721 NORTH ROXBORO ROAD
DURHAM ,NC , 27701-1340

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	1
SITE PRIORITY:	
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	RES
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	8/11/2004
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	6/10/2003
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	307
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

UST

SEARCH ID: 33 **DIST/DIR:** 0.25 NW **ELEVATION:** 377 **MAP ID:** 14

NAME: PASCHALL PROPERTY (JOHN)
ADDRESS: 326 W GEER ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: RA-4626
ID2:
STATUS:
PHONE: 9196880546

RESPONSIBLE LANDOWNER: 0
COMMENTS: M.M. Fowler, Inc.; 4220 Neal Road; Durham, NC 27705. 09/22/82003, JFM.// Affidavit from M.L. Barnes stated that he was unaware if he had installed the USTs. 10/16/2003, JFM ///

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 46 **DIST/DIR:** 0.25 NW **ELEVATION:** 377 **MAP ID:** 14

NAME: PASCHALL PROPERTY (JOHN)
ADDRESS: 326 W GEER ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-026331
ID2: 26331
STATUS: CLOSED OUT
PHONE: 9196880546

REGIONAL UST DATA

UST NUMBER:	RA-4626
INCIDENT NUMBER:	26331
CD NUMBER:	307
REEL NUMBER:	204
REGIONAL CONTACT:	JFM
REGIONAL OFFICE:	RAL
DATE OCCURRED:	6/10/2003

RESPONSIBLE COMPANY:

JOHN PASCHALL
1721 NORTH ROXBORO ROAD
DURHAM ,NC , 27701-1340

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	1
SITE PRIORITY:	
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	RES
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	8/11/2004
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	6/10/2003
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	307
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	M.M. Fowler, Inc.; 4220 Neal Road; Durham, NC 27705. 09/22/82003, JFM.// Affidavit from

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 46 **DIST/DIR:** 0.25 NW **ELEVATION:** 377 **MAP ID:** 14

NAME: PASCHALL PROPERTY (JOHN)
ADDRESS: 326 W GEER ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-026331
ID2: 26331
STATUS: CLOSED OUT
PHONE: 9196880546

M.L. Barnes stated that he was unaware if he had installed the USTs. 10/16/2003, JFM ///

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 53 **DIST/DIR:** 0.27 SW **ELEVATION:** 402 **MAP ID:** 15

NAME: WALL PROPERTY (HARVEY)
ADDRESS: 506 N MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT: HARVEY WALL
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-033128
ID2: 33128
STATUS: CURRENT RECORD
PHONE: 9196884321

REGIONAL UST DATA

UST NUMBER:	RA-5593
INCIDENT NUMBER:	33128
CD NUMBER:	0
REEL NUMBER:	0
REGIONAL CONTACT:	STF
REGIONAL OFFICE:	RAL
DATE OCCURRED:	1/3/2006

RESPONSIBLE COMPANY:

505 N. MANGUM STREET
DURHAM ,NC , 27701

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:	
CORRECTIVE ACTION PLAN:	
RBCA:	SOIL TO GROUNDWATER
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	11/25/2008
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	1/3/2006
CURRENT STATUS:	CURRENT RECORD
RBCA GROUNDWATER:	CLEANUPS TO ALTERNATE STANDARDS
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	0
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	Petroleum contamination found in soil samples collected during Environmental Site Assessment.

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 53 **DIST/DIR:** 0.27 SW **ELEVATION:** 402 **MAP ID:** 15

NAME: WALL PROPERTY (HARVEY)
ADDRESS: 506 N MANGUM ST
DURHAM NC 27701
DURHAM
CONTACT: HARVEY WALL
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-033128
ID2: 33128
STATUS: CURRENT RECORD
PHONE: 9196884321

Max TPH 1,530 ppm DRO. Site was old gas station, now mostly under E. Seminary St. Risk based samples were above S-GW but below Residential MSCCs. No gw samples collected, RKD. Will send for state lead, RKD. // Referred to state lead 10/16/06 by RKD. // Accepted as state lead site per letter dated 11/18/06, RKD.

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 52 **DIST/DIR:** 0.28 NW **ELEVATION:** 360 **MAP ID:** 16

NAME: USPS RIGGSBEE
ADDRESS: 715 RIGGSBEE AE
DURHAM NC 27701
DURHAM
CONTACT: MICHAEL BENZ
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-008043
ID2: 8043
STATUS: CLOSED OUT
PHONE:

REGIONAL UST DATA

UST NUMBER:	RA-1202
INCIDENT NUMBER:	8043
CD NUMBER:	45
REEL NUMBER:	105
REGIONAL CONTACT:	STA
REGIONAL OFFICE:	RAL
DATE OCCURRED:	

RESPONSIBLE COMPANY:

US POSTAL SERVICE OFFICE
PO BOX 27497
GREENSBORO ,NC , 27495-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	0
RISK:	
RISK OF INCIDENT:	
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	5/26/1992
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	45
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 52 **DIST/DIR:** 0.28 NW **ELEVATION:** 360 **MAP ID:** 16

NAME: USPS RIGGSBEE
ADDRESS: 715 RIGGSBEE AE
DURHAM NC 27701
DURHAM
CONTACT: MICHAEL BENZ
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-008043
ID2: 8043
STATUS: CLOSED OUT
PHONE:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 48 **DIST/DIR:** 0.30 NW **ELEVATION:** 394 **MAP ID:** 17

NAME: SLATTERY RESIDENCE (MARK)
ADDRESS: 205 W TRINITY AVE
DURHAM NC 27701
DURHAM
CONTACT: MARK SLATTERY
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-010383
ID2: 10383
STATUS: CURRENT RECORD
PHONE:

REGIONAL UST DATA

UST NUMBER: RA-1664
INCIDENT NUMBER: 10383
CD NUMBER:
REEL NUMBER:
REGIONAL CONTACT: MRP
REGIONAL OFFICE: RAL
DATE OCCURRED: 3/17/1993

RESPONSIBLE COMPANY:

510 E WHITAKER MILL RD
RALEIGH ,NC , 27608-2634

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

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

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

LEAK DISCOVERED: 0
LAND USE RESTRICTION FILED:
CLEAN UP:
CURRENT STATUS: CURRENT RECORD

RBCA GROUNDWATER:
POLLUTANT TYPE: GASOLINE/DIESEL/KEROSENE
CD NUMBER:
RESPONSIBLE OWNER: 0
RESPONSIBLE OPERATOR: 0
RESPONSIBLE LANDOWNER: 0
COMMENTS: //Can t locate file. -MRP, 3-30-06//

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 48 **DIST/DIR:** 0.30 NW **ELEVATION:** 394 **MAP ID:** 17

NAME: SLATTERY RESIDENCE (MARK)
ADDRESS: 205 W TRINITY AVE
DURHAM NC 27701
DURHAM
CONTACT: MARK SLATTERY
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-010383
ID2: 10383
STATUS: CURRENT RECORD
PHONE:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

BROWNFIELD

SEARCH ID: 58 **DIST/DIR:** 0.31 NW **ELEVATION:** 361 **MAP ID:** 18

NAME: WRIGHTS EXECUTIVE SALES
ADDRESS: 403 W GEER and 721 RIGSBEE ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 9/30/09
ID1: NCBR-1107-013
ID2:
STATUS: PENDING
PHONE:

SITE INFORMATION

PROSPECTIVE DEVELOPER:
FAC ELIGIBILITY: PENDING = PROJECT PENDING ELIGIBILITY
DESCRIPTION:

BROWNFIELD

SEARCH ID: 57 **DIST/DIR:** 0.31 NW **ELEVATION:** 361 **MAP ID:** 18

NAME: WRIGHTS EXECUTIVE SALES
ADDRESS: 721 RIGSBEE ST
E DURHAM NC
DURHAM
CONTACT:
SOURCE:

REV: 8/1/07
ID1: NCBR-0407-045
ID2:
STATUS: PENDING
PHONE:

SITE INFORMATION

PROSPECTIVE DEVELOPER: Trinity Trust Partners - Corbin Anderson
STATUS: PENDING = PROJECT PENDING ELIGIBILITY

DESCRIPTION:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 50 **DIST/DIR:** 0.31 NW **ELEVATION:** 359 **MAP ID:** 19

NAME: STRAWBRIDGE STUDIOS
ADDRESS: 410 W /420 GEER ST
DURHAM NC 27705
DURHAM
CONTACT: KENNETH S. STRAWBRIDGE
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-033108
ID2: 33108
STATUS: CURRENT RECORD
PHONE:

REGIONAL UST DATA

UST NUMBER:	RA-5573
INCIDENT NUMBER:	33108
CD NUMBER:	0
REEL NUMBER:	0
REGIONAL CONTACT:	JFM
REGIONAL OFFICE:	RAL
DATE OCCURRED:	5/8/2006

RESPONSIBLE COMPANY:

STRAWBRIDGE STUDIOS
3000 HILLSBOROUGH RD.
DURHAM ,NC , 27705

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	COMMERCIAL
REGULATED:	REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	1
SITE PRIORITY:	
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	RES
CORRECTIVE ACTION PLAN:	
RBCA:	SOIL TO GROUNDWATER
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	7/28/2006
CONTAMINATION:	GROUNDWATER/BOTH
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	NO
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	5/8/2006
CURRENT STATUS:	CURRENT RECORD
RBCA GROUNDWATER:	CLEANUPS TO ALTERNATE STANDARDS
POLLUTANT TYPE:	GASOLINE/DIESEL/KEROSENE
CD NUMBER:	0
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	No USTs information was given in this report, property transfer. 07/21/2006, JFM///

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 50 **DIST/DIR:** 0.31 NW **ELEVATION:** 359 **MAP ID:** 19

NAME: STRAWBRIDGE STUDIOS
ADDRESS: 410 W /420 GEER ST
DURHAM NC 27705
DURHAM
CONTACT: KENNETH S. STRAWBRIDGE
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-033108
ID2: 33108
STATUS: CURRENT RECORD
PHONE:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 42 **DIST/DIR:** 0.31 SW **ELEVATION:** 401 **MAP ID:** 20

NAME: FIRST BAPTIST CHURCH
ADDRESS: 414 CLEVELAND ST
DURHAM NC 27701
DURHAM
CONTACT: ELLIS THOMAS
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-009181
ID2: 9181
STATUS: RESPONSE
PHONE: 9196887308

REGIONAL UST DATA

UST NUMBER:	RA-1445
INCIDENT NUMBER:	9181
CD NUMBER:	
REEL NUMBER:	
REGIONAL CONTACT:	WER
REGIONAL OFFICE:	RAL
DATE OCCURRED:	9/17/1992

RESPONSIBLE COMPANY:

FIRST BAPTIST CHURCH
414 CLEVELAND ST
DURHAM ,NC , 27702-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	NON COMMERCIAL
REGULATED:	NON REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	0
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	
CORRECTIVE ACTION PLAN:	
RBCA:	SOIL TO GROUNDWATER
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	12/12/2008
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	9/15/1992
CURRENT STATUS:	CURRENT RECORD
RBCA GROUNDWATER:	CLEANUPS TO 2L.0202 STANDARDS
POLLUTANT TYPE:	HEATING OIL
CD NUMBER:	
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	9.22.2008 Reviewed UST Closure Report dated 10.27.1992. One 8,000-gallon heating oil UST

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 42 **DIST/DIR:** 0.31 SW **ELEVATION:** 401 **MAP ID:** 20

NAME: FIRST BAPTIST CHURCH
ADDRESS: 414 CLEVELAND ST
DURHAM NC 27701
DURHAM
CONTACT: ELLIS THOMAS
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-009181
ID2: 9181
STATUS: RESPONSE
PHONE: 9196887308

was removed in September 1992. The tank was located on a concrete slab approx. 11 feet bls. Stained soil and FP pooling was noted prior to soil excavation. Obviously contaminated soil was removed and stock piled on site. Confirmation samples were collected from side walls and two from the base (below and adjacent to the concrete slab). Samples only ran for OandG. The side wall sample collected near Roxboro Street reported 460 ppm (above 250 ppm action level) They could not excavated further due to the road, slope of excavation in relationship to the road, and utility poles in the area. WER// Sending NORR for LSA and to install MW in location of sidewall sample 2 (460 ppm for OandG). Also, collect soil sample for risk base. WER //

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 40 **DIST/DIR:** 0.31 NE **ELEVATION:** 400 **MAP ID:** 21

NAME: BISHA, ROBIN PROPERTY
ADDRESS: 114 W TRINITY AVE
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-024213
ID2: 24213
STATUS: CLOSED OUT
PHONE:

REGIONAL UST DATA

UST NUMBER:	RA-4065
INCIDENT NUMBER:	24213
CD NUMBER:	224
REEL NUMBER:	72
REGIONAL CONTACT:	MRP
REGIONAL OFFICE:	RAL
DATE OCCURRED:	3/11/2002

RESPONSIBLE COMPANY:

ROBIN BISHA
114 WEST TRINITY AVENUE
DURHAM ,NC , 27701-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	NON COMMERCIAL
REGULATED:	NON REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	1
SITE PRIORITY:	
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	RES
CORRECTIVE ACTION PLAN:	
RBCA:	RESIDENTIAL
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	1/12/2004
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	NO
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	3/6/2002
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	CLEANUPS TO 2L.0202 STANDARDS
POLLUTANT TYPE:	HEATING OIL
CD NUMBER:	224
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	

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Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 40 **DIST/DIR:** 0.31 NE **ELEVATION:** 400 **MAP ID:** 21

NAME: BISHA, ROBIN PROPERTY
ADDRESS: 114 W TRINITY AVE
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-024213
ID2: 24213
STATUS: CLOSED OUT
PHONE:

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 38 **DIST/DIR:** 0.32 SW **ELEVATION:** 413 **MAP ID:** 22

NAME: 111 LIBERTY STREET
ADDRESS: 111 LIBERTY ST
DURHAM NC 27701
DURHAM
CONTACT: GLENN E. WHISLER, PE
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-024149
ID2: 24149
STATUS: CLOSED OUT
PHONE:

REGIONAL UST DATA

UST NUMBER:	RA-4050
INCIDENT NUMBER:	24149
CD NUMBER:	166
REEL NUMBER:	163
REGIONAL CONTACT:	JFM
REGIONAL OFFICE:	RAL
DATE OCCURRED:	2/28/2002

RESPONSIBLE COMPANY:

COUNTY OF DURHAM
200 E. MAIN STREET
DURHAM ,NC , 27701-

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	NON COMMERCIAL
REGULATED:	NON REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	
SITE PRIORITY:	
RISK:	
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	RES
CORRECTIVE ACTION PLAN:	
RBCA:	
CLOSED REVIEW REQUESTED:	3/21/2002
CASE CLOSED:	4/12/2002
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	UNKNOWN
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	
CLEAN UP:	2/28/2002
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	HEATING OIL
CD NUMBER:	166
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	One (1) 550 gal heating oil ust discovered during construction activities. Post excavation showed

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 38 **DIST/DIR:** 0.32 SW **ELEVATION:** 413 **MAP ID:** 22

NAME: 111 LIBERTY STREET
ADDRESS: 111 LIBERTY ST
DURHAM NC 27701
DURHAM
CONTACT: GLENN E. WHISLER, PE
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-024149
ID2: 24149
STATUS: CLOSED OUT
PHONE:

results < SGW MSCC. 04/09/2002, JFM /////

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

BROWNFIELD

SEARCH ID: 56 **DIST/DIR:** 0.34 SW **ELEVATION:** 358 **MAP ID:** 23

NAME: NU-TREAD TIRE COMPANY
ADDRESS: 545 FOSTER ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 9/30/09
ID1: NCBR-0407-029
ID2:
STATUS: NEW
PHONE:

HISTORIC INFORMATION

SITE INFORMATION

PROSPECTIVE DEVELOPER: Durham CREDO-1, LLC
FAC ELIGIBILITY: ACTIVE = ACTIVE ELIGBLE PROJECT
DESCRIPTION:

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 49 **DIST/DIR:** 0.35 NW **ELEVATION:** 388 **MAP ID:** 24

NAME: SLOME, SHAWN PROPERTY
ADDRESS: 230 W TRINITY AVE
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-033114
ID2: 33114
STATUS: ARCHIVED
PHONE: 9194890418

REGIONAL UST DATA

UST NUMBER:	RA-5579
INCIDENT NUMBER:	33114
CD NUMBER:	343
REEL NUMBER:	300
REGIONAL CONTACT:	MRP
REGIONAL OFFICE:	RAL
DATE OCCURRED:	7/18/2006

RESPONSIBLE COMPANY:

MR. SHAWN SLOME
418 DRAGONFLY TRAIL
CHAPEL HILL ,NC , 27517

SOURCE:	LEAK, UST
PETROLEUM TYPE:	PETROLEUM
COMMERCIAL/NONCOMMERCIAL:	NON COMMERCIAL
REGULATED:	NON REGULATED
REGULATORY REQUIREMENT:	
VIOLATION:	
PHASE REQUIRED:	1
SITE PRIORITY:	
RISK:	L
RISK OF INCIDENT:	L
INTERMEDIATE CONDITION:	
LAND USE:	RES
CORRECTIVE ACTION PLAN:	
RBCA:	RESIDENTIAL
CLOSED REVIEW REQUESTED:	
CASE CLOSED:	8/28/2006
CONTAMINATION:	SOIL
SUPPLY WELLS:	0
MTBE IN WELL:	0
MTBE IN GROUNDWATER:	NO
LEAK DISCOVERED:	0
LAND USE RESTRICTION FILED:	8/24/2006
CLEAN UP:	7/18/2006
CURRENT STATUS:	ARCHIVED
RBCA GROUNDWATER:	
POLLUTANT TYPE:	HEATING OIL
CD NUMBER:	343
RESPONSIBLE OWNER:	0
RESPONSIBLE OPERATOR:	0
RESPONSIBLE LANDOWNER:	0
COMMENTS:	//One 550-gallon heating oil UST removed w/ 27.1 tons of soil. Contaminated soil w/ C9-C22

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

LUST

SEARCH ID: 49 **DIST/DIR:** 0.35 NW **ELEVATION:** 388 **MAP ID:** 24

NAME: SLOME, SHAWN PROPERTY
ADDRESS: 230 W TRINITY AVE
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: NCDENR

REV: 10/1/10
ID1: NCI-033114
ID2: 33114
STATUS: ARCHIVED
PHONE: 9194890418

aromatics above residential MSCCs remains at depths greater than 10.5-11.5 feet BGS and under house. -MRP// 08/23/06 - LSA submitted: No WSW, Ellerbe Creek located 1300 NW, no WHP. MW installed to 24 bls. GW flow to SW. DTW=22.65 bls. No soils collected for LSA as bedrock 15 bls. GW BDL. Recommend NFA with NRP for soil only.- CED ////

08/23/06 - NRP for soil only received. - CED //// 08/28/06 - NFA issued with PN. - CED //// NRP recorded by Durham County Reg of Deeds 8/24/06, Book 5334, Page 286-291, RKD.

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 8 **DIST/DIR:** 0.36 SW **ELEVATION:** 401 **MAP ID:** 25

NAME: CLEVELAND STREET
ADDRESS: 400 CLEVELAND ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NONCD0001514
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 3/20/2008
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE:

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	YES	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 19 **DIST/DIR:** 0.39 NW **ELEVATION:** 358 **MAP ID:** 26

NAME: USA RESERVE XVIII AIRBORNE CORPS
ADDRESS: 724 FOSTER ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NC9210022787
ID2:
STATUS: NFA
PHONE:

SITE INFORMATION

DATE ADDED: 5/1/1989
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: MILITARY - MILITARY FACILITIES AND LANDS AND MILITARY EQUIPMENT MANUFACTURING FACILITIES

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	NO	**NFA:**	YES
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

NFRAP

SEARCH ID: 2 **DIST/DIR:** 0.39 NW **ELEVATION:** 358 **MAP ID:** 26

NAME: USA RESERVE XVIII AIRBORNE CORPS
ADDRESS: 724 FOSTER ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: EPA

REV: 8/31/10
ID1: NC9210022787
ID2: 0403201
STATUS: NFRAP-N
PHONE:

DESCRIPTION:

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
ARCHIVE SITE EPA	In-House		3/21/2006
DISCOVERY F	ederal Facilities		11/16/1988
PRELIMINARY ASSESSMENT LOW PRIORITY FOR FURTHER ASSESSMENT	Federal Facilities		8/29/1990
PRELIMINARY ASSESSMENT NFRAP: NO FURTHER REMEDIAL ACTION PLANNED	State, Fund Financed		9/27/2005

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 11 **DIST/DIR:** 0.47 SE **ELEVATION:** 382 **MAP ID:** 27

NAME: DURHAM GAS PLANT
ADDRESS: 708 GILBERT ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NCD986173938
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 12/30/1991
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: UTILITIES - UTILITY SITES AND RIGHT-OF-WAYS, OLD COAL GASIFICATION SITES AND FLYASH DISPOSAL

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	YES	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	NO	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

DOCKET NUMBER:	94-SF-065	**ORDER, REQUEST, AOC:**	ADMINISTRATIVE AGREEMENT
RECEIVING PARTY:		**MEDIA COVERED:**	ENTIRE SITE
EXECUTION DATE:	11/2/1994	**WITHDRAWN:**	YES
DATE COMPLETED:		**NOTICE CANCELED:**	
STAFF INITIALS:	HZ	**REC CODE:**	

DOCKET NUMBER:	00192	**ORDER, REQUEST, AOC:**	ADMINISTRATIVE AGREEMENT
RECEIVING PARTY:	PSNC; CPandL; Southern States Co	**MEDIA COVERED:**	ENTIRE SITE
EXECUTION DATE:	11/13/2001	**WITHDRAWN:**	NO
DATE COMPLETED:		**NOTICE CANCELED:**	
STAFF INITIALS:	JP	**REC CODE:**	

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

VCP

SEARCH ID: 59 **DIST/DIR:** 0.47 SE **ELEVATION:** 382 **MAP ID:** 27

NAME: DURHAM GAS PLANT
ADDRESS: 708 GILBERT ST
DURHAM NC
DURHAM
CONTACT:
SOURCE:

REV: 7/30/07
ID1: VC-NCD986173938
ID2: NCD986173938
STATUS: VOLUNTARY CLEANUP
PHONE:

SITE INFORMATION

DATE ADDED:	12/30/1991	**RESIDENCE ON SITE:**	NO
DW WELL DISTANCE:	NO INFO	**SW INTAKE DISTANCE:**	NO INFO

PROCESS CODE: UTILITIES - UTILITY SITES AND RIGHT-OF-WAYS, OLD COAL GASIFICATION SITES AND FLYASH DISPOSAL

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	YES	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	NO	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:	NO	**NON HAZ SUB SITE VOL:**	NO
NON HAZ SUB SITE NFA:	NO		

ORDERS, AGREEMENTS, AND SOLICITATIONS

DOCKET NUMBER:	94-SF-065	**ORDER, REQUEST, AOC:**	ADMINISTRATIVE AGREEMENT
RECEIVING PARTY:		**MEDIA COVERED:**	ENTIRE SITE
EXECUTION DATE:	11/2/1994	**WITHDRAWN:**	YES
DATE COMPLETED:		**NOTICE CANCELED:**	
STAFF INITIALS:	HZ	**REC CODE:**	

DOCKET NUMBER:	00192	**ORDER, REQUEST, AOC:**	ADMINISTRATIVE AGREEMENT
RECEIVING PARTY:	PSNC; CPandL; Southern States Co	**MEDIA COVERED:**	ENTIRE SITE
EXECUTION DATE:	11/13/2001	**WITHDRAWN:**	NO
DATE COMPLETED:		**NOTICE CANCELED:**	
STAFF INITIALS:	JP	**REC CODE:**	

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

NFRAP

SEARCH ID: 1 **DIST/DIR:** 0.47 SE **ELEVATION:** 382 **MAP ID:** 27

NAME: DURHAM COAL GASIFICATION PLANT
ADDRESS: 708 GILBERT ST
DURHAM NC 27701
DURHAM
CONTACT:
SOURCE: EPA

REV: 8/31/10
ID1: NCD986173938
ID2: 0405475
STATUS: NFRAP-N
PHONE:

DESCRIPTION:
SITE IS A FORMER COAL GASIFICATION PLANT OPERATED THROUGH 1953. THE BUILDING IS NOW OCCUPIED BY SOUTHERN STATES GRAIN CORP. CONTAM. WAS FOUND 1.5 MI. DWNSTRM OF SITE ON PROP OWNED BY WACHOVIA BANK (STEVE ANDERSON 919/683-5226).

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
ARCHIVE SITE EPA	In-House		8/23/2004
DISCOVERY EPA	Fund-Financed		6/20/1990
PRELIMINARY ASSESSMENT LOW PRIORITY FOR FURTHER ASSESSMENT	State, Fund Financed		1/14/1992
SITE INSPECTION State, NFRAP: NO FURTHER REMEDIAL ACTION PLANNED	Fund Financed		4/2/1997

BROWNFIELD

SEARCH ID: 54 **DIST/DIR:** 0.47 NW **ELEVATION:** 344 **MAP ID:** 28

NAME: COFFIN SHOP
ADDRESS: 715 WASHINGTON ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 3/31/08
ID1: NCBR-0907-007
ID2:
STATUS: ACTIVE
PHONE:

HISTORIC INFORMATION

SITE INFORMATION

PROSPECTIVE DEVELOPER: TTP IV, LLC
FAC ELIGIBILITY: ACTIVE = ACTIVE ELIGBLE PROJECT
DESCRIPTION:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 16 **DIST/DIR:** 0.66 SW **ELEVATION:** 396 **MAP ID:** 29

NAME: LIGGETT AND MYERS COMPANY
ADDRESS: 700 WEST MAIN/114 BUCHANON BLVD
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NCD097724009
ID2:
STATUS: NFA
PHONE:

SITE INFORMATION

DATE ADDED: 1/12/1988
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: OTHER - OTHER VARIOUS PROCESSES SUCH AS OTHER MANUFACTURING, SANITATION SERVICE COMPANIES, AND FIRE TRAINING GROUNDS; ALSO INCLUDES ALL SITES WHERE THE PROCESS CAUSING THE CONTAMINATION IS UNKNOWN

MEDIA CONTAMINATED **CONTAMINANT TYPE**
KNOWN/SUSPECTED

CATEGORIES

SPL SCORE:	13	**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	NO	**NFA:**	YES
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 17 **DIST/DIR:** 0.68 SW **ELEVATION:** 384 **MAP ID:** 30

NAME: SCARBOROUGH and HARGETT FUNERAL HOME
ADDRESS: 306 S ROXBORO ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NONCD0002449
ID2:
STATUS: NFA
PHONE:

SITE INFORMATION

DATE ADDED: 3/20/2008
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE:

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	NO	**NFA:**	YES
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 12 **DIST/DIR:** 0.69 SW **ELEVATION:** 381 **MAP ID:** 31

NAME: DURHAM PUBLIC SERVICE CO PROP (FORMER)
ADDRESS: 309 BLACKWELL ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NONCD0002858
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 1/5/2009
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: UTILITIES - UTILITY SITES AND RIGHT-OF-WAYS, OLD COAL GASIFICATION SITES AND FLYASH DISPOSAL

MEDIA CONTAMINATED	CONTAMINANT TYPE
SOIL M	ETALS
SOIL O	RGANICS

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	YES	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

SWL

SEARCH ID: 23 **DIST/DIR:** 0.72 NE **ELEVATION:** **MAP ID:** 32

NAME: THERMAL REDUCTION SYSTEMS
ADDRESS: 817 EAST TRINITY ST
DURHAM NC
DURHAM
CONTACT: LARRY PARKER
SOURCE: NC DENR

REV: 2/1/09
ID1: P0050
ID2:
STATUS: INACTIVECLOSED
PHONE: 919.942.5179

SITE INFORMATION

PERMIT NUMBER: 3203-INDUS-
WASTE: INDUSTRIAL LANDFILL
ACTIVITY: LANDFILL
STATUS: INACTIVECLOSED

CONTACT INFORMATION:
NAME: LARRY PARKER

PHONE: 919.942.5179
FAX:

ARCHIVED INFORMATION

PERMIT NUMBER: 3203
PUB/PRIVATE: PRIVATE
FAC TYPE:
IS THE SITE LINED?: No

CONTACT INFORMATION: LARRY PARKER
PRESIDENT
PO BOX 2070
CHAPEL HILL, NC 27515

PHONE: (919) 942-5179
FAX:

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 15 **DIST/DIR:** 0.75 SE **ELEVATION:** 339 **MAP ID:** 33

NAME: HONEYWELL, INC
ADDRESS: 921 HOLLOWAY ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NCD003198520
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 6/3/1998
DW WELL DISTANCE: > 1/4 MILE
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: < 1/4 MILE

PROCESS CODE: EL

MEDIA CONTAMINATED	CONTAMINANT TYPE
GROUNDWATER ORGANI	CS
SOIL M	ETALS
SOIL O	RGANICS
GROUNDWATER M	ETALS

CATEGORIES

SPL SCORE:	48.17	**SPL:**	NO
VOLUNTARY CLEANUP:	YES	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	NO	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

DOCKET NUMBER:	09315	**ORDER, REQUEST, AOC:**	AA-REC
RECEIVING PARTY:	HONEYWELL INTERNATIONAL	**MEDIA COVERED:**	ENTIRE SITE
EXECUTION DATE:	12/1/2009	**WITHDRAWN:**	NO
DATE COMPLETED:		**NOTICE CANCELED:**	
STAFF INITIALS:	KC	**REC CODE:**	

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 6 **DIST/DIR:** 0.76 SW **ELEVATION:** 385 **MAP ID:** 34

NAME: BRIGHTLEAF SQUARE
ADDRESS: 800 WEST BLOCK MAIN ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NONCD0001382
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 3/20/2008
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE:

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	YES	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 13 **DIST/DIR:** 0.78 SW **ELEVATION:** 379 **MAP ID:** 35

NAME: EAKES CLEANERS (FORMER)
ADDRESS: 827 W MORGAN ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NONCD0001192
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 11/29/2007
DW WELL DISTANCE: > 1/4 MILE
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: DRY CLEANING - DRY CLEANING

MEDIA CONTAMINATED	CONTAMINANT TYPE
GROUNDWATER ORGANI	CS
SOIL O	RGANICS

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	YES	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 14 **DIST/DIR:** 0.78 SW **ELEVATION:** 379 **MAP ID:** 35

NAME: EAKES CLEANERS INC
ADDRESS: 827 W MORGAN ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 10/13/09
ID1: NONCD0001653
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 3/20/2008
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE:

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	YES	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 10 **DIST/DIR:** 0.81 SE **ELEVATION:** 409 **MAP ID:** 36

NAME: DAUGHERTY CHEMICAL COMPANY
ADDRESS: 307 WALKER ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NCD080885551
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 1/12/1988
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: CHEMICAL INDUSTRY - PRODUCTION, BLENDING, DISTRIBUTION, TRANSPORTATION AND RECOVERY PROCESSES AND GENERAL USAGE

MEDIA CONTAMINATED	CONTAMINANT TYPE
SOIL M	ETALS

CATEGORIES

SPL SCORE:	32.27	**SPL:**	YES
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	NO	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 5 **DIST/DIR:** 0.82 SE **ELEVATION:** 355 **MAP ID:** 37

NAME: BAZEMORE GROCERY
ADDRESS: 923 FRANKLIN ST
REPUBLICAN NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NONCD0001904
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 12/31/2009
DW WELL DISTANCE: < 1/4 MILE
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: OTHER - OTHER VARIOUS PROCESSES SUCH AS OTHER MANUFACTURING, SANITATION SERVICE COMPANIES, AND FIRE TRAINING GROUNDS; ALSO INCLUDES ALL SITES WHERE THE PROCESS CAUSING THE CONTAMINATION IS UNKNOWN

MEDIA CONTAMINATED	CONTAMINANT TYPE
GROUNDWATER ORGANI	CS

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	YES	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 9 **DIST/DIR:** 0.82 SE **ELEVATION:** 355 **MAP ID:** 37

NAME: CONTINENTAL FOREST IND/FEDERAL PAPER
ADDRESS: 923 FRANKLIN ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NCD091568279
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 1/12/1988
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: PAINTING and PRINTING - PAINTING AND PRINTING OPERATIONS WITH THE EXCEPTION OF FURNITURE FINISHING; ALSO INCLUDES PAINT MANUFACTURE AND BLENDING OPERATIONS

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:		**SPL:**	NO
VOLUNTARY CLEANUP:	NO	**REMEDIAL ACTION:**	
EVALUATIONS PENDING:	YES	**NFA:**	NO
NFA W/COVENANT:	NO	**DWQ:**	NO
SW SECTION:	NO	**NON NPL CERCLA:**	NO
NPL SITE:	NO	**NON TSD HAZ WASTE:**	NO
TSD:	NO	**RADIATION PROTECTION:**	NO
BROWNFIELD:		**DUPLICATE:**	NO
UST LEAD:	NO	**DSCA LEAD:**	NO
NON HAZ SUB SITE EP:		**NON HAZ SUB SITE VOL:**	
NON HAZ SUB SITE NFA:	NO		
POLLUTANT ONLY SITE-OPEN:	0		
POLLUTANT ONLY SITE -NFA RESTRICTED:		0	

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 7 **DIST/DIR:** 0.82 SE **ELEVATION:** 357 **MAP ID:** 38

NAME: CHURCH OF EPHESUS/MODEL LAUNDRY
ADDRESS: 1001 HOLLOWAY ST
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NONCD0001500
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 3/20/2008
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE:

MEDIA CONTAMINATED **CONTAMINANT TYPE**

CATEGORIES

SPL SCORE:
VOLUNTARY CLEANUP: NO
EVALUATIONS PENDING: YES
NFA W/COVENANT: NO
SW SECTION: NO
NPL SITE: NO
TSD: NO
BROWNFIELD:
UST LEAD: NO
NON HAZ SUB SITE EP:
NON HAZ SUB SITE NFA: NO
POLLUTANT ONLY SITE-OPEN: 0
POLLUTANT ONLY SITE -NFA RESTRICTED: 0

SPL: NO
REMEDIAL ACTION:
NFA: NO
DWQ: NO
NON NPL CERCLA: NO
NON TSD HAZ WASTE: NO
RADIATION PROTECTION: NO
DUPLICATE: NO
DSCA LEAD: NO
NON HAZ SUB SITE VOL:

ORDERS, AGREEMENTS, AND SOLICITATIONS

Environmental FirstSearch
Site Detail Report

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

STATE

SEARCH ID: 18 **DIST/DIR:** 0.86 NE **ELEVATION:** 342 **MAP ID:** 39

NAME: SOUTHCHEM LANDFILL
ADDRESS: 750 EAST MARKHAM AVE
DURHAM NC
DURHAM
CONTACT:
SOURCE: NC DENR

REV: 6/4/10
ID1: NCD980503148
ID2:
STATUS: ACTIVE
PHONE:

SITE INFORMATION

DATE ADDED: 1/12/1988
DW WELL DISTANCE: NO INFO
RESIDENCE ON SITE: NO
SW INTAKE DISTANCE: NO INFO

PROCESS CODE: CHEMICAL INDUSTRY - PRODUCTION, BLENDING, DISTRIBUTION, TRANSPORTATION AND RECOVERY PROCESSES AND GENERAL USAGE

MEDIA CONTAMINATED	CONTAMINANT TYPE
SEDIMENT PESTI	CIDES
SURFACE WATER PESTI	CIDES
SOIL P	ESTICIDES
SURFACE WATER ORG	ANICS

CATEGORIES

SPL SCORE: 37.98
VOLUNTARY CLEANUP: NO
EVALUATIONS PENDING: NO
NFA W/COVENANT: NO
SW SECTION: NO
NPL SITE: NO
TSD: NO
BROWNFIELD:
UST LEAD: NO
NON HAZ SUB SITE EP:
NON HAZ SUB SITE NFA: NO
POLLUTANT ONLY SITE-OPEN: 0
POLLUTANT ONLY SITE -NFA RESTRICTED: 0

SPL: YES
REMEDIAL ACTION:
NFA: NO
DWQ: NO
NON NPL CERCLA: NO
NON TSD HAZ WASTE: NO
RADIATION PROTECTION: NO
DUPLICATE: NO
DSCA LEAD: NO
NON HAZ SUB SITE VOL:

ORDERS, AGREEMENTS, AND SOLICITATIONS

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 CORACT: ***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 CONSERVAT ION A ND RECOVERY INFORMAT ION SYST EM TREATMENT, ST ORAGE, and DISPOSA L FACI LITIES. - Datab ase of h azardous w aste inform ation contained in the Reso urce Conserv ation an d Recovery Act In formation (RCRAInfo), a national p rogram management and in ventory system about hazardou s w aste handlers. In gen eral, all g enerators, tran sporters, treaters, storers, and disposers of hazardous w aste are requ ired to provide inform ation about their activities to state en vironmental ag encies. T hese agencies, in turn pass on the inform ation to regional and national EPA offices. T his regulation i s governed by the R esource Conservation and Recovery Act (RCRA), as am ended 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 CONSERVAT ION A ND RECOVERY INFORMATION SYST EM GENERA TORS - Da tabase of h azardous w aste in formation contained in the Resource Conservatio n a nd Recov ery Act In formation (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, tran sporters, treaters, storers, an d disposers of hazardous w aste are required to prov ide information about their activities to state en vironmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Co nservation and Reco very Act (RCRA), as am ended 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 RA ATS (RCRA Adm inistrative Action T racking System) and CMEL (Com pliance Monitoring & Enforcement List) facilities.
CONNECTICUT HAZARDOUS WASTE MANIFEST – Database of all shipm ents of hazardous waste within, into or from Connecticut. T he data in cludes date of sh ipment, transporter and T SD info, and m aterial shipped and quantity. This data is appended to the details of existing generator records.
MASSACHUSETTES HAZARDOUS WAST E GENERA TOR – database of gen erators th at are reg ulated 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.

Federal IC / EC: ***EPA*** BROWNFIELD MANA GEMENT SYSTEM (BMS) - database desig ned to assist EPA in collecting, tracking, and updating inform ation, as w ell as reportin g on the m ajor activities an d accomplishments of the various Brownfield grant Programs.
FEDERAL ENGINEERING AND INST ITUTIONAL CONT ROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated.

ERNS: ***EPA/NRC*** EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to th e Natio nal Response Center. T hese incidents include chem ical spills, accidents in volving chemicals (such as fires o r explosions), oil spills, tran sportation accidents that involve oil or chem icals, releases of radioactive m aterials, sightings of oil sheens on bodies of w ater, terrorist incidents involv ing chem icals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incid ents. Data since January 2001 has been received f rom the National Respo nse System database as the EPA no longer maintains this data.

Tribal Lands: ***DOI/BIA*** INDIAN LANDS OF T HE UNITED STATES - Database of areas w ith boundaries established by treaty, statu te, and (or) executiv e or court order, recog nized by the Fed eral Gov ernment 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 m ore, 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 CONT ACT - Regio nal contact inform ation for the Bureau of Indian Affairs offices.

State/Tribal Sites: ***NCDENR*** STATE INACT IVE HA ZARDOUS SIT ES LIST - d atabase of sites an d Facilities th at are being investigated due to reported releases of Hazardou s sub stances. In cluded w ithin this Inactive Hazardous Waste Sites Inv entory database are the follow ing classifications: Inactive Hazardous Waste Sites (IHS), No Further Action Sites (NFA), Duplicate Sites (DS), In active 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 aggreement. 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.

RADON: ***NTIS*** NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Federal Other: ***EPA*** SECTION SEVEN TRACKING SYSTEM (SSTS) – database of registration and production data for facilities which manufacture pesticides.
VAPOR INTRUSION DATABASE – database that records the migration of volatile chemicals from the subsurface into overlying buildings. Volatile chemicals in contaminated soil or groundwater can emit vapors that may migrate through soil and into indoor air spaces.

State Other: ***US DOJ*** NATIONAL CLANDESTINE LABORATORY REGISTER - Database of addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the U.S. Department of Justice (" the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

State Other: ***NC DENR*** North Carolina Dry-Cleaning Solvent Cleanup Act P rogram (DSCA) – Database of certified site list and project managers
DENR DRYCLEANING SIT ES LIST – Database of all sites iden tified by the departm ent w ith possible dry-cleaning solvent contamination. List includes sites that have been certified into the DSCA Program.

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 Ag ency, Massach usetts Departm ent of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

Federal IC / EC: ***EPA*** Environmental Protection Agency

Updated quarterly

ERNS: ***EPA/NRC*** Environmental Protection Agency

Updated annually

Tribal Lands: ***DOI/BIA*** United States Department of the Interior

Updated annually

State/Tribal Sites: ***NCDENR*** North Carolina Departm ent of Environm ent and Natu ral 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

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

RADON: ***NTIS*** Environmental Protection Agency, National Technical Information Services

Updated periodically

Federal Other: ***EPA*** Environmental Protection Agency

Updated quarterly

State Other: ***US DOJ*** U.S. Department of Justice

Updated when available

State Other: ***NC DENR*** North Carolina Department of Environment and Natural Resources, Division of

Waste Management

Updated quarterly

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

Target Property: 727 MANGUM ST
DURHAM NC 27701

JOB: 2010-1345
REDO (CHANGE LUST TO 0.33 MILES)

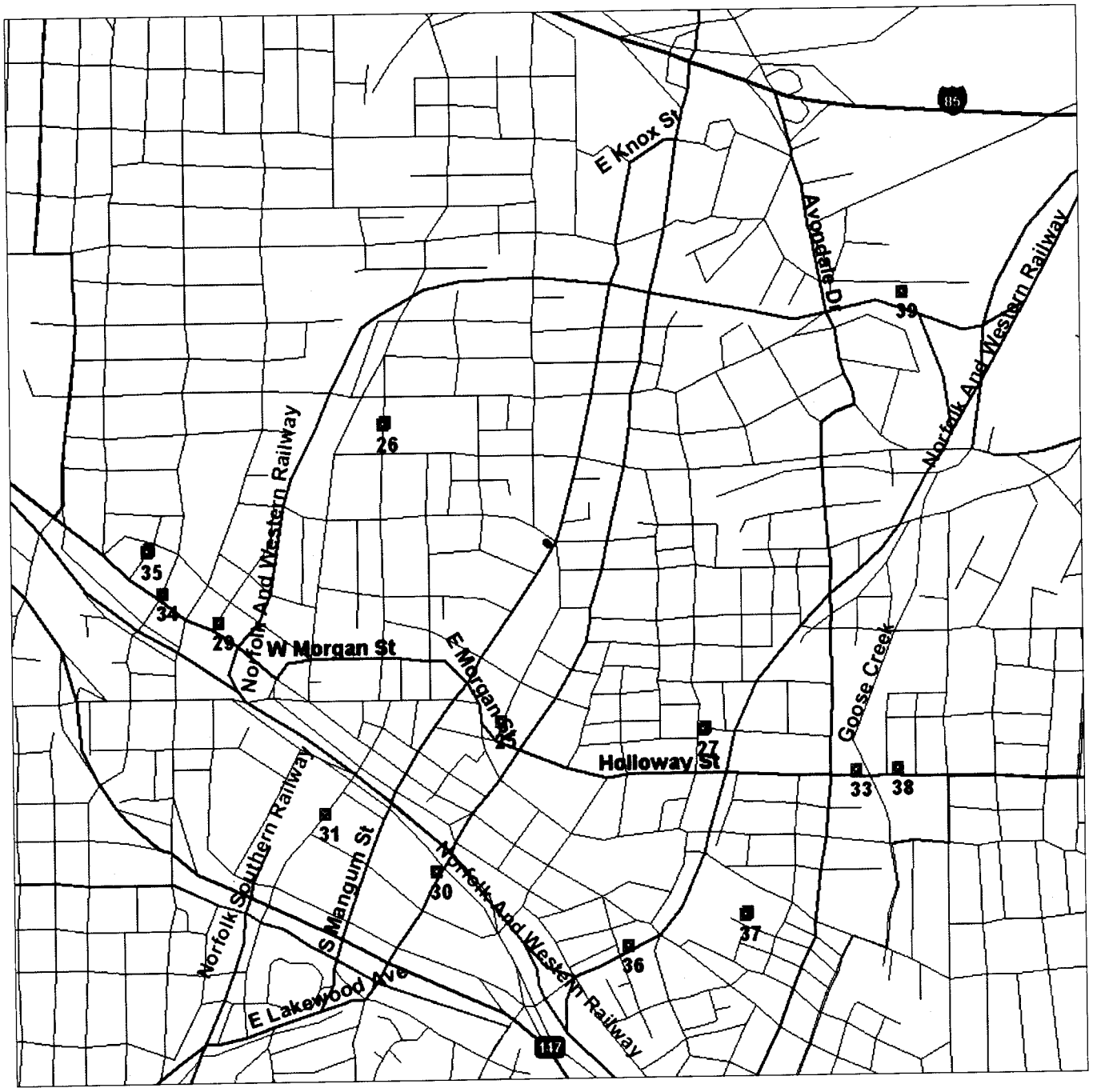
Street Name	Dist/Dir	Street Name	Dist/Dir
27 Aly	0.17 SW		
Bay St	0.25 NW		
Broadway St	0.05 SW		
Canal St	0.17 SE		
Cleveland St	0.01 NE		
Dowd St	0.04 SE		
E Corporation St	0.02 NE		
E Geer St	0.20 NE		
E Seminary Ave	0.23 SW		
Elliott St	0.24 SW		
Glendale Ave	0.04 NW		
Gray Ave	0.09 SE		
Gurley St	0.19 NE		
Hargrove St	0.24 NW		
Hunt St	0.11 SW		
Kelly Ln	0.09 NE		
Lyric St	0.17 NE		
Madison St	0.20 NW		
Mallard Ave	0.19 SW		
McCollum Aly	0.17 SW		
Miosha St	0.11 NE		
Mission Pl	0.07 NE		
N Mangum St	0.00 --		
N Queen St	0.20 SE		
North St	0.11 SW		
Northwood Cir	0.11 NW		
Oakwood Ave	0.25 SE		
Rigsbee Ave	0.23 SW		
Roxboro Rd	0.10 SE		
United States Highwa	0.00 --		
US Hwy 501 (Bus)	0.00 --		
W Corporation St	0.02 NE		
W Geer St	0.19 NE		
W Seminary Ave	0.23 SW		
Wake Pl	0.19 NE		

Environmental FirstSearch

1 Mile Radius from Area

ASTM Map: NPL, RCRACOR, STATE Sites

727 MANGUM ST, DURHAM NC 27701



Source: 2005 U.S. Census TIGER Files

Area Polygon .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Environmental FirstSearch

.5 Mile Radius from Area

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

727 MANGUM ST, DURHAM NC 27701

Source: 2005 U.S. Census TIGER Files

Area Polygon .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

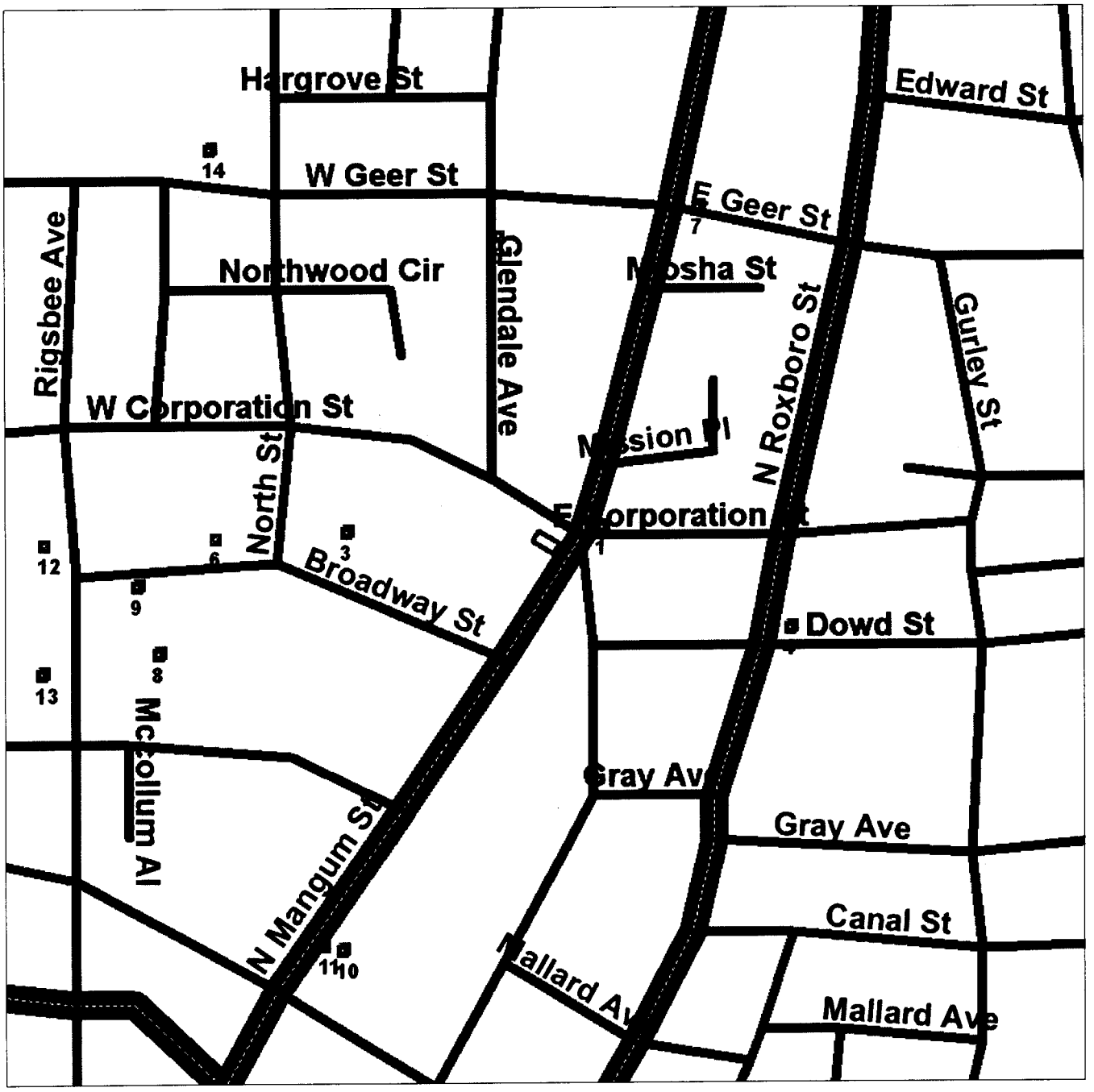
Railroads .....

Environmental FirstSearch

.25 Mile Radius from Area

ASTM Map: RCRAGEN, ERNS, UST

727 MANGUM ST, DURHAM NC 27701



Source: 2005 U.S. Census TIGER Files

Area Polygon .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Environmental FirstSearch

.5 Mile Radius from Area

Non-ASTM Map: Spills 90, Other, Brownfield

727 MANGUM ST, DURHAM NC 27701

Source: 2005 U.S. Census TIGER Files

Area Polygon .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

National Historic Sites and Landmark Sites .....

Railroads .....

Non-Invasive Tier 1 Vapor Encroachment Screening - Database Review Worksheet

Proposed Mixed Use Facility - 727 North Mangum Street

	Up-gradient		Down-gradient		Cross-gradient		Notes
Area of Concern	COC : .33 mile	Petroleum: .10 mile	COC : .02 mile	Petroleum: .02 mile	COC: .07 mile	Petroleum: .03 mile	

State Standard Environmental Record Sources

Database	Site Name	Site Address	Distance	Direction	Gradient							Notes
LUST	AMERICAN TEXTILES SERVICES	800 MANGUM ST	0.02	NE	down-gradient	N	N		N	N	N	**The record source cannot be ruled out as a VEC- see Phase I ESA for further discussior**
BROWNFIELD	NORTH MANGUM STREET PROPERTIES	601 N , 603, 605, 607 MANGUM 103,	0.07	SW	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	EQUIPMENT MAINTENANCE	120 BROADWAY ST	0.09	NW	up-gradient	N		N	N	N	N	**The record source cannot be ruled out as a VEC- see Phase I ESA for further discussior**
LUST	UNION MISSIONARY BAPTIST CHURC	N ROXBORO and DOWD	0.12	SE	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	GERALD JONES COMPANY, INC.	900 N MANGUM ST	0.18	NE	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	PLUMBING SUPPLY WAREHOUSE-FMR	213 BROADWAY ST	0.20	SW	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	MARTIN PROPERTY, KENNETH	600 N MANGUM	0.22	SW	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	PASCHALL PROPERTY (JOHN)	326 W GEER ST	0.25	NW	down-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	FORMER TIRE KING	500 RIGSBEE AVE	0.25	SW	down-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	WALL PROPERTY (HARVEY)	506 N MANGUM ST	0.27	SW	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	USPS RIGGSBEE	715 RIGGSBEE AE	0.28	NW	down-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	SLATTERY RESIDENCE (MARK)	205 W TRINITY AVE	0.30	NW	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	BISHA, ROBIN PROPERTY	114 W TRINITY AVE	0.31	NE	up-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
BROWNFIELD	WRIGHTS EXECUTIVE SALES	721 RIGSBEE ST	0.31	NW	down-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
BROWNFIELD	WRIGHTS EXECUTIVE SALES	403 W GEER and 721 RIGSBEE ST	0.31	NW	down-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	STRAWBRIDGE STUDIOS	410 W /420 GEER ST	0.31	NW	down-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	FIRST BAPTIST CHURCH	414 CLEVELAND ST	0.31	SW	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC
LUST	111 LIBERTY STREET	111 LIBERTY ST	0.32	SW	cross-gradient	N	N	N	N	N	N	The record source is associated with petroleum contamination and is outside of the area of concern and is therefore not a VEC

Federal Standard Environmental Record Sources

Database	Site Name	Site Address	Distance	Direction	Gradient

There are no Federal Environmental Record Sources identified within the Area of Concern.

Sites outside of the maximum area of concern (1/3 mile) for both State and Federal Environmental Record Sources are not a VEC and are therefore not inlcuded in this worksheet.

Total Sources of Vapor Encroachment	0	1	1	0	0	0

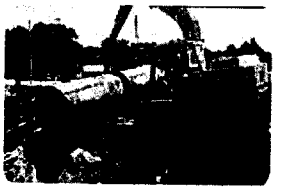
A Smaller Intrusion

by Anthony J. Buonicore, P.E.

Posted: May 1, 2009

Reducing the area of concern in the ASTM vapor intrusion standard could make the screening process much more efficient.

Based upon feedback from the marketplace since the ASTM E 2600-08 vapor intrusion standard was published in March 2008,[1] the standard is currently undergoing revision. There are two proposed technical revisions that will enable the area of concern (AOC) for vapor intrusion screening in real estate transactions to be significantly reduced and save considerable time.



A former industrial site located near a residential area which caused a vapor intrusion issue.

The first technical revision is directed at differentiating in Tier 1 between what steps to take when groundwater flow direction cannot be estimated (in the Phase I investigation) and when it can. The second revision would eliminate the secondary area of concern (AOC) in Tier 1 as field experience to-date has shown it not to be necessary. Moreover, it can waste valuable time and money investigating sites a considerable distance from the target property (TP) that are highly unlikely to result in a vapor intrusion problem.

Starting with the basics

These proposed revisions in the standard have the potential to significantly reduce the AOC, and thus the time and cost of investigations. The existing standard identifies a primary and secondary AOC in the Tier 1 search distance test, distinguished by whether the record search is done within the area completely around a target property (primary AOC), or whether the up-gradient direction beyond the primary AOC (secondary AOC) is included as well.

An old waste dump area located near a residential area that created a vapor intrusion issue.

Also, the search distances are different for sites contaminated with volatile and semi-volatile chemicals of concern (COC) – such as many chlorinated solvents – versus sites contaminated with petroleum hydrocarbon COC – such as BTEX. The search distances are shorter for petroleum hydrocarbons because they are known to undergo significant bio-degradation in the presence of oxygen. The primary AOC search distances were determined based upon conservative consideration of both plume length and

the distance vapors might travel along a path of least resistance from a source (such as contaminated groundwater) through the vadose zone directly to a structure on a TP. The secondary AOC was included to keep the search distances in the E 2600-08 standard consistent with those in the E 1527-05 Phase I standard.[2]

There is sound technical basis for establishing the primary AOC. Plume length research was conducted for both volatile chemical plumes (such as chlorinated solvent plumes from dry cleaners) and volatile petroleum hydrocarbon plumes from leaking underground storage tank sites. In order to be conservative, the plume length selected to determine the primary AOC was based upon the 90th percentile distance.[3-6] For (non-petroleum hydrocarbon) COC plumes – such as may be associated with dry cleaners – 90 percent of the time the plume length was less than approximately 1,590 feet. For volatile petroleum hydrocarbon COC plumes, 90 percent of the time it was less than approximately 390 feet.

Using experience from vapor intrusion sites in the U.S. on the distances vapors may migrate through the vadose zone, and adding them to the 90th percentile plume length, the primary AOC search radii were determined, i.e., 1/3 mile (1,760 feet) for non-petroleum hydrocarbon COC, and 1/10 mile (520 feet) for petroleum hydrocarbon COC.

Under the proposed technical revisions, if it is not possible to estimate groundwater flow direction in the Phase I investigation, then the Tier 1 screen must consider all known or suspect COC-contaminated property surrounding the TP within the search radii of the primary AOC, as defined in the existing standard. However, if it is possible to estimate groundwater flow direction (and assuming four quadrants can be distinguished around a TP: an up-gradient, two cross-gradient, and a down-gradient), then the AOC can be further reduced. This is important because each known or suspect contaminated property within the AOC may need to be investigated further, and may even require a file review at state regulatory offices (in accordance with Tier 2 of the standard). The key consideration is where the known or suspected contaminated property is located with respect to the TP.

Contaminated sources located up-gradient of the TP

For contaminated sources – such as a drycleaner with a PERC release or a gas station with a release from a leaking underground storage tank – located up-gradient of the TP, the focus would continue to be those contaminated properties within the primary AOC distances (i.e., 1,760 feet for COC sources and 520 feet for petroleum hydrocarbon COC sources).

For contaminated sources located cross-gradient of the TP

A former gas station site.

When a contaminated property (such as a drycleaner with a PERC release or a gas station with a release from a leaking underground storage tank) is located cross gradient from the TP, the length of the plume associated with the cross-gradient source is not really relevant. However, its width is relevant. According to the E 2600-08 standard, what matters for cross-gradient sources is whether the nearest edge of the contaminated plume is within the critical distance from the nearest structure on the TP. The critical distance as defined in E 2600-08 effectively is the maximum distance a vapor can reasonably be expected to migrate in relatively permeable soil, assuming the path of least resistance is directly from the nearest edge of the contaminated media (such as groundwater) to the nearest structure on the TP. The distance of concern from the structure on the TP to the property that created the contamination (e.g., a dry cleaner), would be the critical distance plus a distance to account for the plume width at that point. While the critical distance numbers are specifically identified in E 2600-08 for petroleum hydrocarbon and non-petroleum hydrocarbon contamination, nothing prescriptive is mentioned in the standard about how to deal with plume width if such information is not available. A suggested approach is described later.

For contaminant sources located down-gradient of the TP

For contaminated sites – such as a dry cleaner with a PERC release or a gas station with a release from a leaking underground storage tank – located down-gradient of the TP, plume length and width matter little and the focus would only be on the critical distance. Hence, the AOC can be reduced from 1,760 feet to 100 feet for COC contamination, except for petroleum hydrocarbon COC contamination where the AOC can be reduced from 520 feet to either 100 feet (when LNAPL or free product is presumed to be present), or 30 feet (when only dissolved petroleum hydrocarbons are presumed to be present in the groundwater).

Suggested methodology for dealing with plume width at cross-gradient sources

A former drycleaners. Such sites present high potential risk in any vapor intrusion

For contaminated properties located cross-gradient from the TP, plume width must be taken into consideration in selecting an appropriate distance of concern ($D_{concern}$). The question is, what would be a reasonably conservative estimate for plume width (a default value) to use in the screening process assuming no actual plume information is available?

One approach is to base the default plume width on 1/3rd of the plume length[7,8] and, to be conservative, use the 90th percentile plume length (PL90) discussed previously, regardless of where the contaminated property is located in the cross-gradient quadrant. Plume width, for example, would matter little if the contaminated property is located close to the boundary separating the cross-gradient quadrant from the down-gradient quadrant. On the other hand, it would be of much greater concern if the contaminated property is located close to the boundary separating the cross-gradient quadrant from the up-gradient quadrant.

screen.

Assuming symmetry of the plume on both sides of the source, one-half of the plume width (PW) would be added to the critical distance ($D_{critical}$) to establish the distance of concern. This can be expressed as:

$$D_{concern} = D_{critical} + 1/2\ PW = D_{critical} + 1/2\ (PL90/3)$$

Comparing this approach for default plume width with actual plume data[3-6] suggests the approach is reasonable. For non-petroleum hydrocarbon COC contamination sources (such as a dry cleaner) located cross-gradient from the TP:

$$D_{critical} = 100\ ft.$$
$$PL90 = 1{,}590\ ft.$$

Therefore:

$$D_{concern} = 100 + 1/2\ (1{,}590/3) = 365\ feet$$

The default E 2600-08 search radius in the cross-gradient quadrant can then be reduced from 1,760 feet to 365 feet for non-petroleum hydrocarbon COC.

For LNAPL or free product petroleum hydrocarbon sources (such as a gas station with a release from a leaking underground storage tank) located cross gradient from the TP:

$$D_{critical} = 100\ ft.$$
$$PL90 = 390\ ft.$$

Therefore:

$$D_{concern} = 100 + 1/2\ (390/3) = 165\ ft.$$

Using this approach, the default E 2600-08 search radius in the cross-gradient quadrant could then be reduced from 520 feet to 165 feet for LNAPL petroleum hydrocarbon sources. If only dissolved petroleum hydrocarbons (in groundwater) are presumed to be present:

$$D_{critical} = 30\ ft.$$
$$PL90 = 390\ ft.$$

Therefore:

$$D_{concern} = 30 + 1/2\ (390/3) = 95\ ft.$$

Using this approach, the default E 2600-08 search radius in the cross-gradient quadrant could then be reduced from 520 feet to 95 feet for dissolved petroleum hydrocarbon sources.

Status of E 2600-08

Several changes are planned for the ASTM E 2600-08 standard that should improve its practicality, clarity and consistency. These changes were balloted in April 2009. After discussion of these changes and any further revisions, there will be another ballot in summer 2009. If all goes well, it is anticipated that the revised standard could be approved at the October 2009 ASTM meeting in Atlanta and published by the end of the year.

Furthermore, using reasonable assumptions, it may be possible to reduce significantly the default distances of concern, which could significantly reduce the investigation effort in many cases with minimal reduction to the protectiveness of the screening process. ***PE***

Anthony J. Buonicore, P.E.
ajb@edrnet.com
Anthony Buonicore is a consultant and chaired the ASTM task group responsible for developing the vapor intrusion assessment standard. He can be reached at (800) 238-1841, or ajb@edrnet.com.

APPENDIX F

Interview Documentation

DOMINION
Due Diligence Group

PROSPECTIVE LANDOWNER AND/OR USER QUESTIONNAIRE

SUBJECT PROPERTY NAME:	Proposed Mixed Use Facility		
SUBJECT PROPERTY ADDRESS:	727 North Mangum Street, Durham, NC 27701-2417		
QUESTION	YES	NO	UNK?
1. Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property?			✓
2. Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property?			✓
3. Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?			✓
4. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?			✓
5. Are you aware of any activity use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?			✓
6. As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants?			✓
7. Are you aware of commonly known or reasonably ascertainable information about the property?			✓
8. Do you know the past uses of the property?			✓
9. Do you know specific chemicals that are present or once were present at the property?			✓
10. Do you know of spills or other chemical releases that have taken place at the property?			✓
11. Do you know of environmental cleanups that have taken place at the property?			✓
12. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?			✓
13. Has a title search been performed? If yes, please attach.			✓
14. Is the property or has the property been used as a gasoline station, motor repair facility, commercial printing, dry cleaners, photo developing, landfill, industrial use, waste treatment or disposal facility?			✓
15. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals at the subject property?			✓
16. Are there currently any industrial drums or chemicals at the subject property?			✓

PROSPECTIVE LANDOWNER AND/OR USER QUESTIONNAIRE

SUBJECT PROPERTY NAME:	Proposed Mixed Use Facility		
SUBJECT PROPERTY ADDRESS:	727 North Mangum Street, Durham, NC 27701-2417		
QUESTION	**YES**	**NO**	**UNK?**
17. Are you aware of contaminated fill dirt at the subject property? (i.e. Fill dirt from off-site.)			✓
18. Are there currently any pits, ponds, or lagoons in connection with waste disposal or treatment at the subject property?			✓
19. Are there any current or previous underground storage tanks or aboveground storage tanks at the subject property?			✓
20. Are there currently any vent pipes, fill pipes, or access ways protruding from the ground at the subject property?			✓
21. Is the subject property served by a private well and or a private septic system?			✓
22. Does the property discharge industrial wastewater (excluding sanitary sewer)?			✓
23. Are there monitoring wells at the subject property?			✓
24a. Does the purchase price being paid for this property reasonably reflect the fair market value of the property?			✓
24b. If there is a difference in the purchase price and fair market value of the property, is it because of known contamination?			✓
25. What type of property transaction is being performed? i.e. sale, purchase, exchange, refinance?			
26. What is the fair market value of the property?	$		
27. What is the purchase price of the property?	$		
28. If you are also the current landowner, in what year did you purchase the subject property?			

Please attach additional explanation for questions answered "YES".

Please provide the following documentation to D3G, if available:

* Previous Phase I Environmental Site Assessment
* Environmental compliance audit reports
* Registrations for USTs and/or ASTs.
* Geotechnical reports
* Asbestos or Lead-Based Paint reports
* Environmental permits
* Registrations for underground injection systems.
* Hazardous waste generator notices.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

Please return questionnaire to D3G: fax 804-358-3003 or mail it to 4120 Cox Road, Glen Allen, VA 23060-3316

David Sykes	Environmental Scientist	12-1-10
PRINT NAME/SIGNATURE	**TITLE**	**DATE**
~~BEC~~ CTC Public Benefit Corp.	User - Project Manager	
COMPANY	**PROSPECTIVE LANDOWNER OR USER?**	

DOMINION
Due Diligence Group

CURRENT LANDOWNER PROPERTY QUESTIONNAIRE

SUBJECT PROPERTY NAME:	Proposed Mixed Use Facility - Durham, NC		
SUBJECT PROPERTY ADDRESS:	727 North Mangum Street, Durham, NC 27701		
QUESTION	YES	NO	UNK?
1. Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property?		✓	
2. Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property?		✓	
3. Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?		✓	
4. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?		✓	
5. Are you aware of commonly known or reasonably ascertainable information about the property? For example: Do you know the past uses of the property?		✓	
6. Do you know specific chemicals that are present or once were present at the property?		✓	
7. Do you know of spills or other chemical releases that have taken place at the property?		✓	
8. Do you know of environmental cleanups that have taken place at the property?		✓	
9. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?		✓	
10. Is the property or has the property been used as a gasoline station, motor repair facility, commercial printing, dry cleaners, photo developing, landfill, industrial use, waste treatment or disposal facility?		✓	
11. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals at the subject property?		✓	
12. Are there currently any industrial drums or chemicals at the subject property?		✓	
13. Are you aware of contaminated fill dirt at the subject property? (i.e. Fill dirt from off-site.)		✓	
14. Are there currently any pits, ponds, or lagoons in connection with waste disposal or treatment at the subject property?		✓	
15. Are there any current or previous underground storage tanks or aboveground storage tanks at the subject property?		✓	

CORPORATE HEADQUARTERS ◆ 4121 COX ROAD, SUITE 200 ◆ GLEN ALLEN, VIRGINIA 23060-3316
804.358.2020 ◆ FAX 804.358.3003 ◆ WWW.D3G.BIZ
Providing nationwide service to protect your investments

CURRENT LANDOWNER PROPERTY QUESTIONNAIRE

SUBJECT PROPERTY NAME:	Proposed Mixed Use Facility - Durham, NC
SUBJECT PROPERTY ADDRESS:	727 North Mangum Street, Durham, NC 27701

QUESTION	YES	NO	UNK?
16. Are there currently any vent pipes, fill pipes, or access ways protruding from the ground at the subject property?		✓	
17. Is the subject property served by a private well and or a private septic system?		✓	
18. Does the property discharge industrial wastewater (excluding sanitary sewer)?		✓	
19. Are there monitoring wells at the subject property?		✓	
20. What year did you purchase the subject property?	2009		

Additional Comments:

Please attach additional explanation for questions answered "YES".

Please provide the following documentation to D3G, if available:
* Previous Phase I Environmental Site Assessment
* Asbestos or Lead-Based Paint reports
* Environmental compliance audit reports
* Environmental permits
* Registrations for USTs and/or ASTs.
* Registrations for underground injection systems.
* Geotechnical reports
* Hazardous waste generator notices.

Please return questionnaire to D3G:
fax 804-358-3003
or mail it to:
4120 Cox Road
Glen Allen, VA 23060-3316

PRINT NAME	SIGNATURE	DATE
R. Edward Stewart	[signature]	11-10-10

TITLE	YEARS WITH PROPERTY
President/CEO	1 year

11/10/2010 16:32 FAX 919544469 UDI CDC 002

DOMINION
Due Diligence Group

PREVIOUS LANDOWNER PROPERTY QUESTIONNAIRE

SUBJECT PROPERTY NAME:	727 N. Mangum Street
SUBJECT PROPERTY ADDRESS:	Durham, NC

QUESTION	YES	NO	UNK?
1. Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property?		✓	
2. Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property?		✓	
3. Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?		✓	
4. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?		✓	
5. As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants?		✓	
6. Are you aware of commonly known or reasonably ascertainable information about the property? For example: Do you know the past uses of the property?		✓	
7. Do you know specific chemicals that are present or once were present at the property?		✓	
8. Do you know of spills or other chemical releases that have taken place at the property?		✓	
9. Do you know of environmental cleanups that have taken place at the property?		✓	
10. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?		✓	
11. Is the property or has the property been used as a gasoline station, motor repair facility, commercial printing, dry cleaners, photo developing, landfill, industrial use, waste treatment or disposal facility?			✓
12. Are there any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals at the subject property?			✓
13. Are there any industrial drums or chemicals at the subject property?			✓
14. Are you aware of contaminated fill dirt at the subject property? (i.e. Fill dirt from off-site.)			✓
15. Are there any pits, ponds, or lagoons in connection with waste disposal or treatment at the subject property?		✓	

PREVIOUS LANDOWNER PROPERTY QUESTIONNAIRE

SUBJECT PROPERTY NAME:	727 N. Mangum Street
SUBJECT PROPERTY ADDRESS:	Durham, NC

QUESTION	YES	NO	UNK?
16. Are there any previous underground storage tanks or aboveground storage tanks a the subject property?			✓
17. Are there any vent pipes, fill pipes, or access ways protruding from the ground at the subject property?			✓
18. Is the subject property served by a private well and or a private septic system?		✓	
19. Does the property discharge industrial wastewater (excluding sanitary sewer)?		✓	
20. Are there monitoring wells at the subject property?			✓

Additional Comments:

Please attach additional explanation for questions answered "YES".

Please provide tl following documentation to D3G, if available:

* Previous Phase I Environmental Site Assessment
* Environmental compliance audit reports
* Registrations for USTs and/or ASTs.
* Geotechnical reports
* Asbestos or Lead-Based Paint reports
* Environmental permits
* Registrations for underground injection systems.
* Hazardous waste generator notices.

Please return questionnaire to D3G:
fax 804-358-3003
or mail it to:
4120 Cox Road
Glen Allen, VA 23060-3316

Donna Lunsford	Donna Lunsford	11/18/10
PRINT NAME	SIGNATURE	DATE

Senior Real Estate Officer	7 for me
City of Durham TITLE	YEARS WITH PROPERTY

DOMINION
Due Diligence Group

To: Asst. Fire Marshal Edward Reid
Date: November 4, 2010
Re: Project Name: Proposed Mixed Use Facility
Address: 727 North Mangum Street
City, State: Durham, NC
ID / Block/Lot

As part of the real estate screening that we are performing at the above-listed property, I am requesting assistance to locate any environmental-related permits and information associated with the property.

Please answer the following questions:

Is any information for former or current underground storage tanks available for the property?

☐ Yes If yes, please attach all related information

☐ No

Has the fire department responded to any hazmat spills at the property?

☐ Yes If yes, please attach all related information

☐ No

Comments:

Signature

Printed Name, Title

Thank you for your time and effort in completing the above request for information. If any more information is needed from our company in regards to the screening that we are performing on the above property please contact me at (804) 237-1899. I will follow up directly due to the timeliness of need for this information. Please fax this form and any additional information to me at 757-257-0291.

Greatest Appreciation,

Lucy Scarberry
Research Assistant

CORPORATE HEADQUARTERS ◆ 4120 COX ROAD ◆ GLEN ALLEN, VIRGINIA 23060
804.358.2020 ◆ FAX 804.358.3003 ◆ WWW.D3G.BIZ
Providing nationwide service to protect your investments

DOMINION
Due Diligence Group

To: Durham County Health Department
Attn: Environmental Health Division
Date: November 16, 2010
Re: Proposed Mixed Use Facility
727 North Mangum Street
City of Durham, Durham County, North Carolina
(Parcel # 104905)

As part of the real estate screening that we are performing at the above-listed property, I am requesting assistance to locate any environmental-related permits and information associated with the property.

Please answer the following questions:

Is any information for former or current wells or septic tanks available for the property?

☐ Yes If yes, please attach all related information

☒ No

Are there any known Regional Health issues associated with this property?

☐ Yes If yes, please attach all related information

☒ No

Comments:

Signature

PATRICK C. EATON, REHS
Printed Name, Title

Thank you for your time and effort in completing the above request for information. If any more information is needed from our company in regards to the screening that we are performing on the above property please contact me at (804) 665-2749. I will follow up directly due to the timeliness of need for this information. Please fax this form and any additional information to me at (804) 358-3003.

Thanks for your time,

Travis Ayers
Project Manager

APPENDIX G

Special Contractual Conditions Between User and Environmental Professional

There are no special contractual conditions between the User and Environmental Professional:

D3G has no financial interest or family relationship with the officers, directors, stockholders or partners of the Borrower, the general contractor, any subcontractors, the buyer or seller of the proposed property or engage in any business that might present a conflict of interest.

D3G is employed under contract for this specific assignment and has no other side deals, agreements, or financial considerations with the Lender or others in connection with this transaction.

APPENDIX H

Qualifications for Environmental Professionals

TRAVIS AYERS
ENVIRONMENTAL PROJECT MANAGER

EDUCATION

Christopher Newport University
B.S. Biology in Environmental Science

EXPERIENCE

Travis Ayers is a project manager for Dominion Due Diligence Group. Mr. Ayers is directly responsible for coordinating, conducting and preparing Phase I Environmental Site Assessments (HUD, TCAP, NEPA, VHDA and ASTM E 1527-05) throughout the United States. Additionally, Mr. Ayers is responsible for performance and management of field projects, client contact and comprehensive report writing. Prior to his work with D3G, Mr. Ayers gained experience both as a geotechnical driller with Ayers & Ayers Inc., and in the completion of phase two environmental cleanup with Pollard Environmental LLC.

The following sites are examples of projects in which Mr. Ayers has participated:

HUD MAP 221 (d)(4) NC
- Proposed Van Metre at Kensington Place Woodbridge, VA
- Northwest One Project – Washington, DC
- Proposed Elliott Square Apartments – Durham, NC
- Proposed Terrace Green Apartments Phase II – Joplin, MO
- Proposed Main Street Triangle – Orland Park, IL
- Proposed Peedin Road Apartments – Smithfield, NC
- Proposed Sound Side Apartments – Sarasota, FL
- Proposed the Reserve at Thomas Glen – Shepherdsville, KY
- Proposed Mixed Use Facility – Durham, NC

HUD MAP 220 (NC)
- Proposed 3rd and H Street Apartments – Washington, DC

HUD MAP 221 (d)(4) SR
- Dellway Villas Apartments – Nashville, TN
- Greentree North Apartments – Charleston, SC
- Blue Ridge Commons – Charlottesville, VA

FANNIE MAE
- Dill Building Apartments – Richmond, VA

HUD LEAN 232 NC
- Proposed Lockwood Ridge Assisted Living Facility – Sarasota, FL
- Proposed White House Health Care – White House, TN

ASTM 1527-05
- Proposed Bellemeade Apartments – Richmond, VA
- Proposed Edward Street Apartments – Norfolk, VA
- Robert Russa Moton Museum – Farmville, VA

HUD MAP 223f
- Columbia Uptown – Washington, DC
- Saybrook Apartments – Middletown, CT
- Summerhill Apartments – Middletown, CT
- Greens Pointe Apartments – McAllen, TX
- Golden Manor – Hillsboro, OH
- Buchanan Apartments – New York, NY

HUD LEAN 232/223f
- Shippensburg Health Care – Shippensburg, PA
- Lawrence Street Health Care – Tomball, TX
- Conroe Health Care – Conroe, TX
- Liberty Health Care – Liberty, TX

KIMBERLY L. DINGLEDINE
SENIOR PROJECT MANAGER
ENVIRONMENTAL PROFESSIONAL
CERTIFIED INDOOR ENVIRONMENTALIST

EDUCATION

College of William and Mary, Bachelor of Science Degree in Biology
Institute for Building Science Technology, Certified Indoor Environmentalist Course
Indoor Sciences, Certified Microbial Remediation (CMR) Course
VCU/MCV University, Environmental Courses
Old Dominion Environmental Services Inc., Environmental Courses

CERTIFICATIONS/REGISTRATIONS/TRAINING

Certified Indoor Environmentalist, CIE Certification #01927
Virginia Licensed Asbestos Inspector #3303-002488
Virginia Asbestos Project Designer #3305-001079
Virginia Asbestos Project Monitor #3309-000943
Virginia Asbestos Management Planner #3304-001512
Virginia Licensed Lead-Based Paint Risk Assessor #3356-000615
Virginia Licensed Lead Project Designer #3357-000278
Certified Radon Measurement Technician – NRSB 8ST0001
LPA-1 XRF Lead Paint Detection Device Operator Training/Radiation Safety Training
HUD Multi-Family Accelerated Processing (MAP) Due Diligence In-House Training
Principals of Environmental Site Assessment and Auditing
ASTM Phase 1 Site Assessment and Transaction Screen Assessment Training
"Solving Water and Mold Intrusion Problems in Virginia" – Lorman Education Services
"Mold – Beyond the Surface" – The Richmond Apartment Management Association
Certified Microbial Remediation (CMR) Course – Indoor Sciences
U.S. Green Building Council - LEED 101: Green Building Basics
Screening for Potential Vapor Intrusion Problems under the ASTM E 2600 Standard – Presented by Anthony J. Buonicore, P.E., BCEE, QEP – November 2009

EXPERIENCE

Mrs. Dingledine has numerous years of extensive training and experience with regards to environmental issues. She received an undergraduate B.S. degree in Biology from the College of William and Mary and has inspected, managed and designed numerous environmental projects throughout the United States. Mrs. Dingledine qualifies as an Environmental Professional as defined under ASTM E 1527-05 Section 4.2 and Appendix X2 with over twelve (12) years experience performing investigations of surface and subsurface environmental conditions. She has additionally attended specialized HUD, EPA and IBST classes for environmental inspection and remediation techniques. Mrs. Dingledine's duties as a Senior Project Manager for Dominion Due Diligence Group include coordinating, conducting and reviewing the Phase I/II Environmental Site Assessments (HUD, Freddie Mac, Fannie Mae, VHDA, Georgia DCA, SunAmerica and ASTM E 1527-05) throughout the United States as well as coordinating, conducting and reviewing comprehensive lead-based paint, asbestos-containing material and indoor air quality investigation/remediation projects. Mrs. Dingledine is also responsible for the performance and management of asbestos, lead, and radon subcontracts. Mrs. Dingledine has additionally performed numerous HUD 8-Step Processes and HUD noise assessments throughout the United States. A sample of the projects in which Mrs. Dingledine has managed includes:

HUD MAP 202/223(f):

Amber Pointe – Phase III – Urbana, IL
Chimes Terrace – Johnstown, OH
Crestview Terrace – Bryan, TX
Elsie Mason Manor – Des Moines, IA
Essex Manor – Saginaw, MI
Hadden Hall Apartments – Wilmington, NC
Happy Harbor Senior Home – La Porte, TX
Holy Family Apartments – Bethlehem, PA
Hopeton Village – Chillicothe, OH
Luther Manor – Bettendorf, IA
Luther Towers – Davenport, IA
Indian Lake Villa – Russells Point, OH

HUD MAP 223(f):

Amli at Carmel City Center – Carmel, IN
Beth Am Manor - Los Angeles, CA
Barbara Jordan I – Providence, RI
Dynasty Apartments - Honolulu, HI
Forest Park Apartments - Springfield, TN
Harbor Pines Apartments - St. Mary's, GA
Mapleton Park – Indianapolis, IN
Park Gardens Apts. - Roxbury, MA

HUD MAP 232/223(f):

Bradley Royale Healthcare Center - Bradley, IL
Cedar Springs Care Center - New Paris, OH

KIMBERLY L. DINGLEDINE
SENIOR PROJECT MANAGER
ENVIRONMENTAL PROFESSIONAL
CERTIFIED INDOOR ENVIRONMENTALIST

HUD LEAN 232/223f

West Liberty Care Center – West Liberty, Texas

HUD MAP 221 (d)(4) NC:

8th Street Office Building – Richmond, VA
9th Street Office Building – Richmond, VA
American Tobacco - Richmond, VA
Governor's House Apts. - University Park, IL
Manitou Townhomes - Hampton, VA
Proposed Abberly Apts. - Mooresville, NC
Turtle Creek Apts. - Beverly, MA

HUD MAP 221 (d)(4) SR:

City View on Meridian – Indianapolis, IN

Frankfort Care Center – West Frankfort, IL
Heritage House of Castlewoods – Brandon, MS
Highland Care Center – Salt Lake City, UT
Magnolia Manor – Greenville, SC
Magnolia Manor – Columbia, SC
Magnolia Place – Greenville, SC
Rosewood Care Center - St. Charles, IL

ASTM 1527-05:

Pine Hill – Orangeburg, SC
Bowtie Property – Richmond, VA
8th Street Office Building – Richmond, VA
9th Street Office Building – Richmond, VA

Other:

Afton Square Apartments - Portsmouth, VA – ESA for VHDA
Bowtie Property – ESA for ASTM
Central City Homes Portfolio - Lynchburg, VA – ESA for VHDA
Champion Farms Apartments – Louisville, KY – ESA for Freddie Mac
Chippenham Village Apartments - Richmond, VA - ESA for Fannie Mae/Freddie Mac
Church Manor Apartments - Smithfield, VA – ESA for VHDA
Crooked Creek I - Kansas City, MO - ESA for Fannie Mae/Freddie Mac
Crown Oaks of Penfield – Penfield, NY – ESA for Paramount Financial
Elmcroft of Jackson – Jackson, TN – ESA for ASTM
Elmcroft of Roswell – Roswell ,GA – ESA for ASTM
Emporia Marketplace – Emporia, VA – ESA for ASTM
Hickory Creek at Crawfordsville – Crawfordsville, IN
Hickory Creek at Huntington - Huntington, IN – ESA for ASTM
Hickory Hollow Towers – Antioch, TN – ESA for ASTM/THDA
Jefferson House - Lynchburg, VA – ESA for VHDA
Meadowview Apartments - Pulaski, VA – ESA for VHDA
Oak Lake Boulevard – Midlothian, VA – ESA for ASTM
Oak Ridge Apartments - Riverdale, MD - ESA for Fannie Mae/Freddie Mac
Proposed Apartments – Petersburg, VA – ESA for VHDA
Proposed Staybridge Suites – Stafford, VA – ESA for ASTM
Raintree East Apartments – Bedford, VA – ESA for VHDA
Springview I – Newburgh, IN – ESA for Freddie Mac
Tate Sales and Service Shop – Charlottesville, VA – ESA for ASTM
The Church Hill House and Fairmount House – Richmond, VA – ESA for ASTM
The Lamont Building – Richmond, VA – ESA for Wachovia
The Reserve at William's Glen – Zionsville, IN – ESA for Freddie Mac
Volvo Auto Dealership – Charlottesville, VA – ESA for ASTM
Woods of Castleton - Indianapolis, IN - ESA for Fannie Mae/Freddie Mac
Wythe Creek Apartments - Poquoson, VA – ESA for Fannie Mae/Freddie Mac

Hazardous Materials Inspections:

American Tobacco - Richmond, VA
Carpenter Center - Richmond, VA
Chamberlin Hotel - Fort Monroe, VA
Foxridge Apartments - Blacksburg, VA
Goochland High School - Goochland, VA
John Marshall Hotel - Richmond, VA
Virginia Museum of Fine Arts - Richmond, VA

Indoor Air Quality Investigations:

Brandy Hill Apartments, Mechanicsville, VA
Park at Salisbury Apartments, Midlothian, VA
Park Crescent Apartments, Norfolk, VA
Signature Place Apartments, Greenville, NC
University Village Apartments, Richmond, VA
Villages at Stoney Run – Newport News, VA
Villas at Oakland Chase – Richmond, VA

APPENDIX I

Certificate of Liability Insurance

OP ID: RH

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/26/10

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Virginia Commonwealth Corp.
2570-B Gaskins Rd
Richmond, VA 23238
Raymond K. Taylor

804-282-6723
804-282-2286

CONTACT NAME:
PHONE (A/C, No, Ext):
FAX (A/C, No):
E-MAIL ADDRESS:
PRODUCER CUSTOMER ID #: DOMIN-2

INSURED
Dominion Environmental Group, Inc.dba Dominion Due Diligence
4121 Cox Road, Ste. 200
Glen Allen, VA 23060-3316

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Nautilus Insurance Co	
INSURER B : The Travelers Indemnity Co.	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY						EACH OCCURRENCE	$ 3,000,000
A	X COMMERCIAL GENERAL LIABILITY			ECPO1520541	09/01/10	09/01/11	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
	CLAIMS-MADE X OCCUR						MED EXP (Any one person)	$ 5,000
A	X Prof. Liab			ECPO1520541	09/01/10	09/01/11	PERSONAL & ADV INJURY	$ 3,000,000
A	X Pollution Liab.			ECPO1520541	09/01/10	09/01/11	GENERAL AGGREGATE	$ 3,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$ 3,000,000
	POLICY PRO-JECT LOC							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
B	X ANY AUTO			BA-501Y6030-10-SEL	02/03/10	02/03/11	BODILY INJURY (Per person)	$
	ALL OWNED AUTOS						BODILY INJURY (Per accident)	$
	SCHEDULED AUTOS						PROPERTY DAMAGE (Per accident)	$
	HIRED AUTOS							$
	NON-OWNED AUTOS							$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$ 2,000,000
B	X EXCESS LIAB CLAIMS-MADE			IFS-EX-1721B406-IND-10	02/03/10	02/03/11	AGGREGATE	$ 2,000,000
	DEDUCTIBLE							$
	X RETENTION $							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		IKUB-6588B74-5-10	02/03/10	02/03/11	X WC STATU-TORY LIMITS OTH-ER	
							E.L. EACH ACCIDENT	$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

FOR--01

FOR INFORMATION PURPOSES ONLY

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Raymond K. Taylor

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APPENDIX J

SHPO and THPO Correspondence and the National Register of Historic Places

DOMINION
Due Diligence Group

December 2, 2010

Renee Gledhill-Early
State Historic Preservation Office
4617 Mail Service Center
Raleigh, NC 27699-4617

Subject: Federal Agency/SHPO Consultation/Determination
Proposed Mixed Use Facility
727 North Mangum Street
Durham, Durham County, North Carolina
Parcel ID #104905

Dear Ms. Renee Gledhill-Early;

Pursuant to 36 CFR 800.4 this letter is to provide you with the necessary information and our determination for the following proposal with respect to historical and cultural properties known to be within the undertaking's area of potential effects:

HUD PROGRAM:

HUD 221(d)(4) NC - New Construction of a Mixed Use Facility

LOCATION:

Durham, Durham County, North Carolina

PROJECT SIZE:

0.032 acres

PRESENT CONDITION OF THE SITE:

Existing Structures on the site – YES

The subject property consists of one (1) single-story vacant brick building constructed in 1926. The subject property structure is situated on 0.032 acres of

land and contains a gross building area of approximately 1,680 square feet. The subject property is bounded by cleared undeveloped land to the north; North Mangum Street, Cleveland Street, single-family residences, and UDI Resource Center to the east; Iglesia Evangelicia Principe De Paz, a vacant store, O'Briants Fire Extinguisher, Durham Skateboard Equipment, Bull City Barbers, Labor Work Source , North Mangum Street, and the Shabach Outreach Ministries Christian Church to the south; and cleared, undeveloped land, Carolina Ceramic Coatings, and Terreiro Arte De E Cultura to the west. The subject property is the proposed location of a three-story mixed use facility. The subject property is currently connected to municipally supplied water and sewer.

The sponsor is submitting this project under the 221(d)(4) NC – New Construction of a Mixed Use Facility. The current subject property front building façade is to remain and the remainder of the building is to be demolished.

Site and location maps are enclosed for your review. Photographs of the site and the surrounding area have been included for your review. A United States Geological Survey Topographic Quadrangle is also included. A Phase 1 Environmental Site Assessment has already been completed of the site.

We have reviewed the National Register of Historic Places, including the most recent additions. The subject property is located within the North Durham-Duke Park National Historic District; however, the construction activities should not affect the historic integrity of the district.

Based on the foregoing information, we are of the opinion that, pursuant to 36CFR800.4(b), there will be No Effect.

Your response and concurrence within 30 days of receipt will be appreciated.

Should you or your staff require additional information or have any questions, please contact me at (804) 665-2749 as soon as possible.

Sincerely;

DOMINION DUE DILIGENCE GROUP

Travis Ayers
Project Manager
t.ayers@d3g.biz

DOMINION
Due Diligence Group

December 2, 2010

Caitlin Totherow
Catawba Indian Nation
THPO Archaeology Dept
1536 Tom Steven Road
Rock Hill, SC 29730

Subject: Federal Agency/THPO Consultation/Determination
Proposed Mixed Use Facility
727 North Mangum Street
Parcel ID #104905
Durham, Durham County, North Carolina

Dear Ms. Totherow;

Pursuant to 36 CFR 800.4 this letter is to provide you with the necessary information and our determination for the following proposal with respect to historical and cultural properties known to be within the undertaking's area of potential effects:

HUD PROGRAM:

HUD 221(d)(4) - New Construction of a Mixed Use Facility

LOCATION:

Durham, Durham County, North Carolina

PROJECT SIZE:

0.032 acres

PRESENT CONDITION OF THE SITE:

Existing Structures on the site – Yes; the front building façade is to remain and the remainder of the building is to be demolished.

The subject property consists of one (1) single-story vacant brick building constructed in 1926. The subject property structure is situated on 0.032 acres of land and contains a gross building area of approximately 1,680 square feet. The subject property is bounded

by cleared undeveloped land to the north; North Mangum Street, Cleveland Street, single-family residences, and UDI Resource Center to the east; Iglesia Evangelicia Principe De Paz, a vacant store, O'Briants Fire Extinguisher, Durham Skateboard Equipment, Bull City Barbers, Labor Work Source , North Mangum Street, and the Shabach Outreach Ministries Christian Church to the south; and cleared, undeveloped land, Carolina Ceramic Coatings, and Terreiro Arte De E Cultura to the west. The subject property is the proposed location of a three-story mixed use facility. The subject property is currently connected to municipally supplied water and sewer.

The sponsor is submitting this project under the 221(d)(4) - New Construction of a Mixed Use Facility. The current subject property structure front building façade is to remain and the remainder of the building is to be demolished.

Site and location maps are enclosed for your review. Photographs of the site and the surrounding area have been included for your review. A United States Geological Survey Topographic Quadrangle is also included. A Phase 1 Environmental Site Assessment has already been completed of the site.

We have reviewed the National Register of Historic Places, including the most recent additions. The subject property is located within the North Durham-Duke Park National Historic District; however the construction activities should not affect the historic integrity of the subject property.

Based on the foregoing information, we are of the opinion that, pursuant to 36CFR800.4(b), there will be No Effect.

Your response and concurrence within 30 days of receipt will be appreciated.

Should you or your staff require additional information or have any questions, please contact me at (804) 665-2749 as soon as possible.

Sincerely;

DOMINION DUE DILIGENCE GROUP

Travis Ayers
Project Manager
t.ayers@d3g.biz

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Education & Interpretation

National Register of Historic Places

TITLE LIST DISPLAY

From: NPS Digital Library

Term(s) Searched: North Carolina and Durham

Records Displayed: 1 to 15 of 70

Go back to: **Revise Search**

Sort By: **Title** | **Relevancy** | **Modified**

- **American Tobacco Company Manufacturing Plant** *[Image]* 11%
- **Bassett House** *[Image]* 11%
- **Bennett Place State Historic Site** *[Image]* 11%
- **Blacknall, Richard D., House** *[Image]* 11%
- **Bright Leaf Historic District** *[Image]* 11%
- **Bull Durham Tobacco Factory** *[Image]* 11%
- **Bull Durham Tobacco Factory** *[Image]* 11%
- **Bullington Warehouse** *[Image]* 11%
- **City Garage Yard and Fire Drill Tower** *[Image]* 11%
- **Clark and Sorrell Garage** *[Image]* 11%
- **Cleveland Street District** *[Image]* 11%
- **Cranford-Wannamaker House** *[Image]* 11%
- **Crowell House** *[Image]* 11%
- **Dillard-Gamble Houses** *[Image]* 11%
- **Downtown Durham Historic District** *[Image]* 11%
- **American Tobacco Company Manufacturing Plant** *[Image]* 11%

Prev | **1 2 3 4 5** | **Next**

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Last updated: 11/01/10

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TITLE LIST DISPLAY

From: NPS Digital Library

Term(s) Searched: North Carolina and Durham

Records Displayed: 16 to 30 of 70

Go back to: **Revise Search**

Sort By: **Title** | **Relevancy** | **Modified**

- **Duke Homestead and Tobacco Factory** *[Image]* 11%
- **Duke Homestead and Tobacco Factory** *[Image]* 11%
- **Duke Memorial United Methodist Church** *[Image]* 11%
- **Durham Cotton Mills Village Historic District** *[Image]* 11%
- **Durham Hosiery Mill** *[Image]* 11%
- **Durham Hosiery Mills No. 2--Service Printing Company Building** *[Image]* 11%
- **East Durham Historic District** *[Image]* 11%
- **Emmanuel AME Church** *[Image]* 11%
- **Ephphatha Church** *[Image]* 11%
- **Erwin Cotton Mills Company Mill No. 1 Headquarters Building** *[Image]* 11%
- **Fairntosh Plantation** *[Image]* 11%
- **Forest Hills Historic District** *[Image]* 11%
- **Golden Belt Historic District** *[Image]* 11%
- **Golden Belt Historic District (Boundary Increase)** *[Image]* 11%
- **Greystone** *[Image]* 11%

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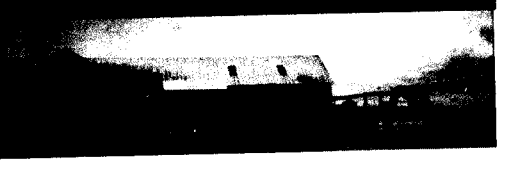

TITLE LIST DISPLAY

From: NPS Digital Library

Term(s) Searched: North Carolina and Durham

Records Displayed: 31 to 45 of 70

Go back to: **Revise Search**

Sort By: **Title** | **Relevancy** | **Modified**

- **Hardscrabble** *[Image]* 7%
- **Hill, John Sprunt, House** *[Image]* 11%
- **Holloway Street District** *[Image]* 11%
- **Holloway Street Historic District (Boundary Increase)** *[Image]* 11%
- **Holloway, Kinchen, House** *[Image]* 11%
- **Horton Grove Complex** *[Image]* 11%
- **Lakewood Park Historic District** *[Image]* 11%
- **Leigh Farm** *[Image]* 7%
- **Liberty Warehouse Nos. 1 and 2** *[Image]* 11%
- **Little Creek Site (31 DH 351)** *[Image]* 7%
- **Mangum, Bartlett, House** *[Image]* 11%
- **Meadowmont** *[Image]* 7%
- **Morehead Hill Historic District** *[Image]* 11%
- **Morehead Hill Historic District (Boundary Increase)** *[Image]* 11%
- **North Carolina Central University** *[Image]* 11%

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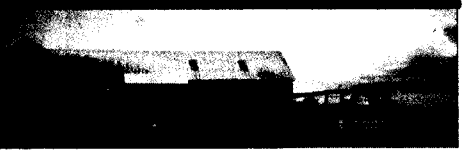

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- **North Carolina Mutual Life Insurance Company Building** *[Image]* 11%
- **North Carolina Mutual Life Insurance Company Building** *[Image]* 11%
- **North Durham County Prison Camp (Former)** *[Image]* 11%
- **North Durham-Duke Park District** *[Image]* 11%
- **O'Brien, William Thomas, House** *[Image]* 11%
- **Pearl Mill Village Historic District** *[Image]* 11%
- **Pegram House** *[Image]* 11%
- **Poland, George, House** *[Image]* 7%
- **Powe House** *[Image]* 11%
- **Scarborough House** *[Image]* 11%
- **Smith Warehouse** *[Image]* 11%
- **St. Joseph's African Methodist Episcopal Church** *[Image]* 11%
- **Stagville** *[Image]* 11%
- **Tilley, Marcus, House** *[Image]* 7%
- **Trinity Historic District** *[Image]* 11%

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- **Trinity Historic District (Boundary Increase II)** *[Image]* 11%
- **Trinity Historic District (Boundary Increase)** *[Image]* 11%
- **Umstead, Adolphus W., House** *[Image]* 7%
- **Venable Tobacco Company Prizery and Receiving Room** *[Image]* 11%
- **Venable Tobacco Company Warehouse** *[Image]* 11%
- **Watts and Yuille Warehouses** *[Image]* 11%
- **Watts Hospital** *[Image]* 11%
- **Watts--Hillandale Historic District** *[Image]* 11%
- **West Durham Historic District** *[Image]* 11%
- **West Point on the Eno** *[Image]* 11%

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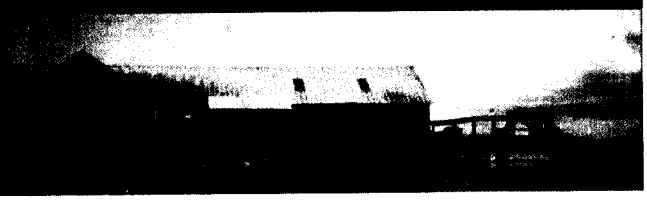

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North Durham-Duke Park District [Image]

URL:	**http://pdfhost.focus.nps.gov/docs/NRHP/Text/85001338.pdf** Link will open in a new browser window
URL:	**http://pdfhost.focus.nps.gov/docs/NRHP/Photos/85001338.pdf** Link will open in a new browser window
Publisher:	National Park Service
Published:	06/20/1985
Access:	Public access
Restrictions:	All Rights Reserved
Format/Size:	Physical document with text, photos and map
Language:	eng: English
Note:	Roughly bounded by Glendale Ave., W. Knox St., Roxboro Rd., Trinity Ave., Magnum & Broadway Sts.
Item No.:	85001338 *NRIS (National Register Information System)*
Subject:	**EVENT**
Subject:	**ARCHITECTURE/ENGINEERING**
Subject:	**ARCHITECTURE**
Subject:	**COMMERCE**
Subject:	**COMMUNITY PLANNING AND DEVELOPMENT**
Subject:	**RELIGION**
Subject:	**LATE VICTORIAN**
Subject:	**DISTRICT**

Subject: **1925-1949**
Subject: **1900-1924**
Subject: **1875-1899**
Place: NORTH CAROLINA -- Durham County -- Durham

Record Number: 399834

Record Owner: National Register of Historic Places

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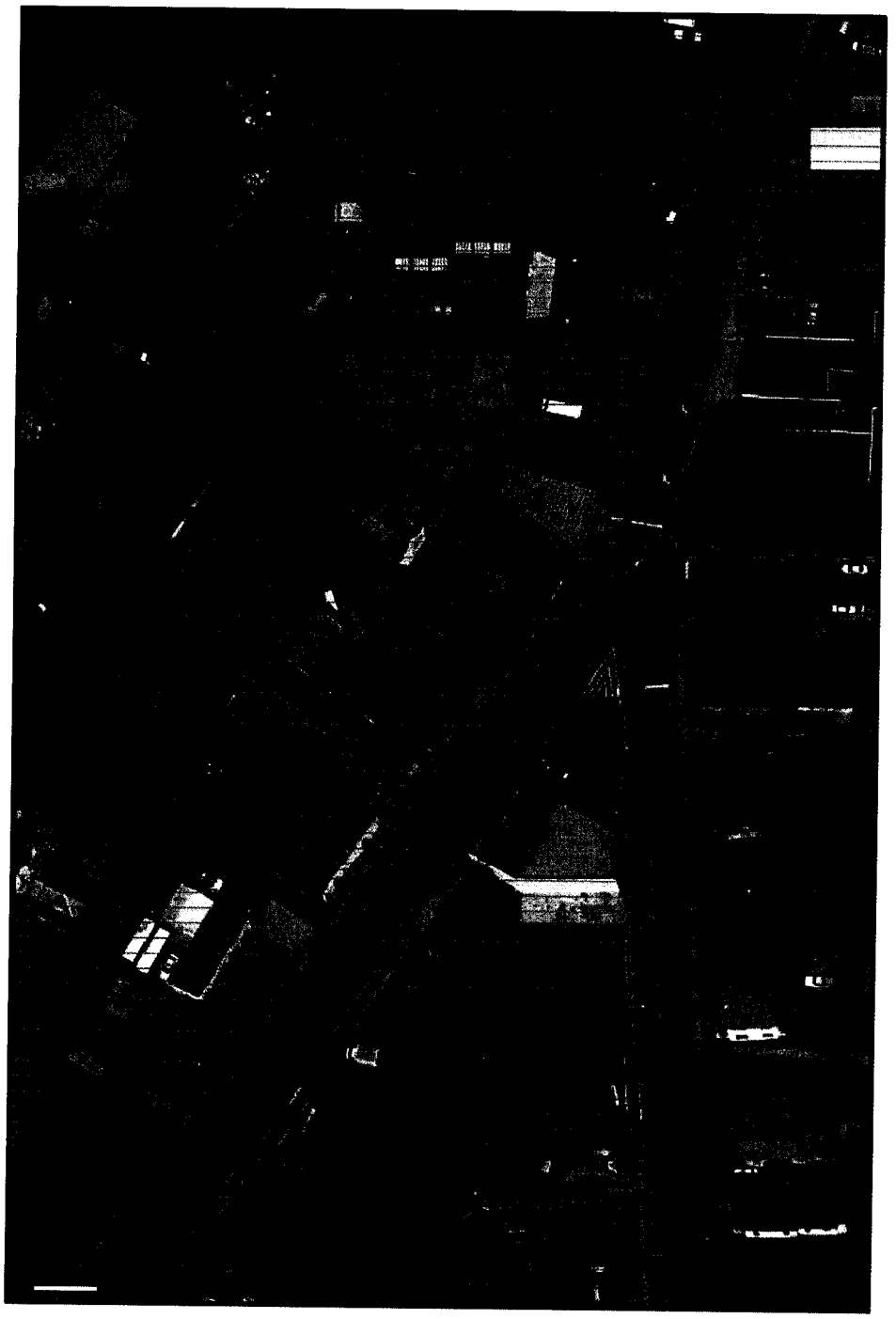

LEGEND

Durham_County

Streams_and_Ditches

DITCH

RIVER

STREAM

UNKNOWN

Highways

Parcels

Overlay_National_Historic_District

Surface_Water_Polygons

Municipal_Boundaries

Chapel Hill

Durham

Morrisville

Raleigh

Ortho_2005

Monday, November 29 2010

N

APPENDIX K

The U.S. Department of the Interior Threatened and Endangered Species System

North Carolina – 62 listings

Animals -- 35

Status	*Species/Listing Name*
E	Bat, Indiana (*Myotis sodalis*)
E	Bat, Virginia big-eared (*Corynorhinus (=Plecotus) townsendii virginianus*)
E	Beetle, American burying (*Nicrophorus americanus*)
E	Butterfly, Saint Francis' satyr (*Neonympha mitchellii francisci*)
E	Cahow (*Pterodroma cahow*)
T	Chub, spotfin Entire (*Erimonax monachus*)
E	Curlew, Eskimo (*Numenius borealis*)
E	Elktoe, Appalachian (*Alasmidonta raveneliana*)
E	Heelsplitter, Carolina (*Lasmigona decorata*)
E	Mussel, oyster Entire Range; Except where listed as Experimental Populations (*Epioblasma capsaeformis*)
E	Pearlymussel, littlewing (*Pegias fabula*)
T	Plover, piping except Great Lakes watershed (*Charadrius melodus*)
E	Puma (=cougar), eastern (*Puma (=Felis) concolor couguar*)
E	Riffleshell, tan (*Epioblasma florentina walkeri (=E. walkeri)*)
E	Sawfish, smalltooth (*Pristis pectinata*)
T	Sea turtle, green except where endangered (*Chelonia mydas*)
E	Sea turtle, hawksbill (*Eretmochelys imbricata*)
E	Sea turtle, Kemp's ridley (*Lepidochelys kempii*)
E	Sea turtle, leatherback (*Dermochelys coriacea*)
T	Sea turtle, loggerhead (*Caretta caretta*)
E	Shiner, Cape Fear (*Notropis mekistocholas*)
T	Silverside, Waccamaw (*Menidia extensa*)
T	Snail, noonday (*Mesodon clarki nantahala*)
E	Spider, spruce-fir moss (*Microhexura montivaga*)
E	Spinymussel, Tar River (*Elliptio steinstansana*)
E	Squirrel, Carolina northern flying (*Glaucomys sabrinus coloratus*)
E	Sturgeon, shortnose (*Acipenser brevirostrum*)
E	Tern, roseate northeast U.S. nesting pop. (*Sterna dougallii dougallii*)
E	Wedgemussel, dwarf (*Alasmidonta heterodon*)
E	Whale, finback (*Balaenoptera physalus*)
E	Whale, humpback (*Megaptera novaeangliae*)
E	Whale, right (*Balaena glacialis (incl. australis)*)
E	Whale, sperm (*Physeter catodon (=macrocephalus)*)
E	Wolf, gray Lower 48 States, except where delisted; where XN; and Mexico. (*Canis lupus*)
E	Woodpecker, red-cockaded (*Picoides borealis*)

Plants -- 27

Status	*Species/Listing Name*
T	Amaranth, seabeach (*Amaranthus pumilus*)
E	Arrowhead, bunched (*Sagittaria fasciculata*)

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E	Avens, spreading (*Geum radiatum*)
E	Bittercress, small-anthered (*Cardamine micranthera*)
T	Blazingstar, Heller's (*Liatris helleri*)
E	Bluet, Roan Mountain (*Hedyotis purpurea var. montana*)
E	Chaffseed, American (*Schwalbea americana*)
E	Coneflower, smooth (*Echinacea laevigata*)
E	Dropwort, Canby's (*Oxypolis canbyi*)
T	Goldenrod, Blue Ridge (*Solidago spithamaea*)
E	Harperella (*Ptilimnium nodosum*)
T	Heartleaf, dwarf-flowered (*Hexastylis naniflora*)
T	Heather, mountain golden (*Hudsonia montana*)
E	Irisette, white (*Sisyrinchium dichotomum*)
T	Joint-vetch, sensitive (*Aeschynomene virginica*)
E	Lichen, rock gnome (*Gymnoderma lineare*)
E	Loosestrife, rough-leaved (*Lysimachia asperulaefolia*)
E	Meadowrue, Cooley's (*Thalictrum cooleyi*)
T	Pink, swamp (*Helonias bullata*)
E	Pitcher-plant, green (*Sarracenia oreophila*)
E	Pitcher-plant, mountain sweet (*Sarracenia rubra ssp. jonesii*)
T	Pogonia, small whorled (*Isotria medeoloides*)
E	Pondberry (*Lindera melissifolia*)
E	Sedge, golden (*Carex lutea*)
T	Spiraea, Virginia (*Spiraea virginiana*)
E	Sumac, Michaux's (*Rhus michauxii*)
E	Sunflower, Schweinitz's (*Helianthus schweinitzii*)

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APPENDIX L

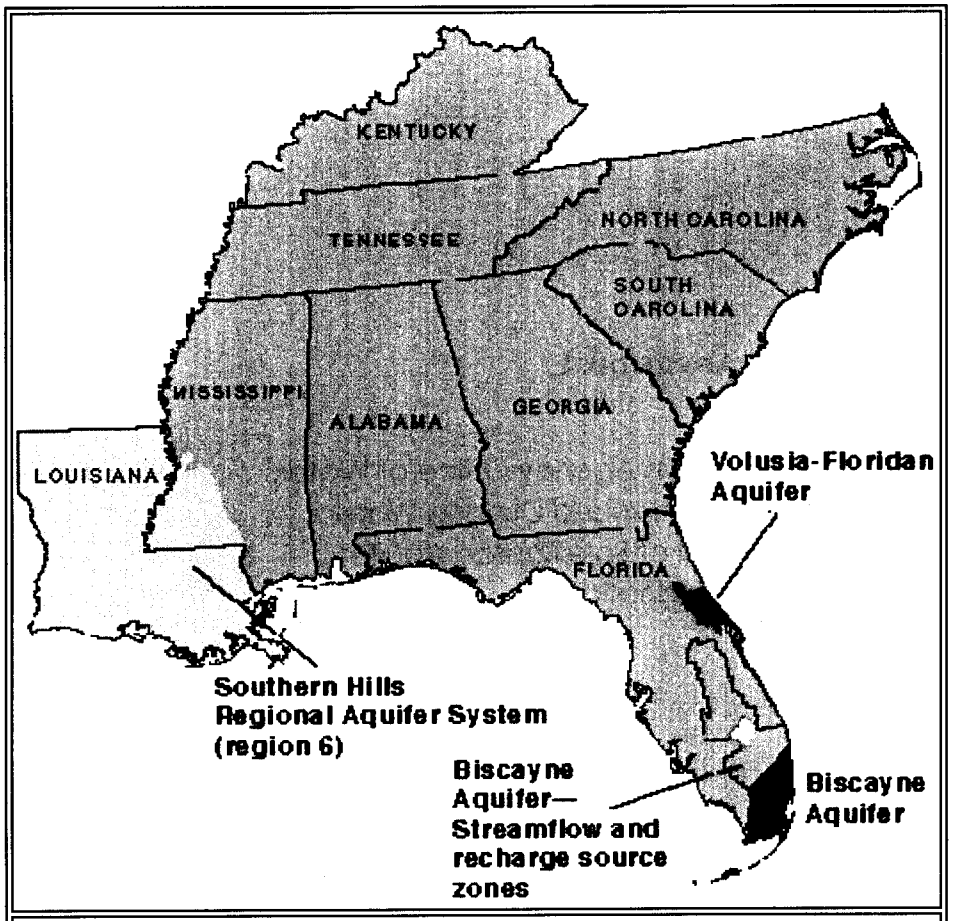
Environmental Protection Agency Office of Water,
Office of Groundwater and Drinking Water
National Summary of Sole Source Aquifer
Designations

U.S. Environmental Protection Agency

Source Water Protection

Designated Sole Source Aquifers in EPA Region IV

Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee



The 3 Sole Source Aquifer designations in Region IV are listed below. Contact the Regional Sole Source Aquifer coordinator for more information.

Lois Hill
US EPA Region IV, Water Division
61 Forsyth St., SE
Atlanta, GA 30303-3104
phone: (404)562-9472
email: hill.lois@epa.gov

DESIGNATED SOLE SOURCE AQUIFERS IN REGION IV:

State	Sole Source Aquifer Name	Federal Register Cit.	Public. Date	GIS map
FL	Biscayne Aquifer, Broward, Dade, Monroe & Palm Beach Counties	44 FR 58797	10/11/79	no
FL	Volusia-Floridan Aquifer, Flagler & Putnam Counties	52 FR 44221	11/18/87	no
*LA/MS	Southern Hills Regional Aquifer System	53 FR 25538	07/07/88	no

*The Southern Hills Regional Aquifer system is jointly managed with Region VI. While listed in both regions, it is counted only once in the national total of 70.

Return to: Sole Source Aquifer program home page

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View the graphical version of this page at: http://www.epa.gov/safewater/swp/ssa/reg4.html

APPENDIX M

HUD Environmental Questionnaire

HUD Environmental Questionnaire

	Yes	No
1. Is the subject property located within a designated coastal barrier resource area?		✓
2. Is the subject property located within the 100- or 500-year floodplain?		✓
3. Are there any known historic preservation issues related to the subject?	✓	
4. Is the subject property located within 5 miles of a civil airport or within 15 miles of a military airfield?		✓
5. Is the project located within 1,000 feet of major highways or busy roads?	✓	
6. Is the project located within 3,000 feet of a railroad?	✓	
7. Are industrial facilities handling explosive or fire-prone materials such as liquid propane, gasoline or other storage tanks adjacent to or visible from the project site?		✓
8. Are there any wetlands on the subject site?		✓
9. Are any repairs or modifications to the project likely to affect any listed or proposed endangered or threatened species or critical habitats?		✓
10. Is the subject property located on a sole source aquifer?		✓
11. Are there any known landfills within ½-mile of the site?		✓
12. Are any buildings located in the fall zone of any high voltage power transmission or other towers?		✓
13. Do any of the required or proposed repairs change the foot print of the building(s)?	✓	

	Yes	No
Does the community participate in the National Flood Insurance Program (NFIP)?	✓	
Is Flood Insurance required for this property?		✓

NFIP Map Panel #: 372008-3100J Date: 5/2/2006

Flood Zone: Zone X

APPENDIX N

HUD Form 4128 and Environmental Field Data Sheets

Environmental Assessment and Compliance Findings for the Related Laws

U.S. Department of Housing and Urban Development

1. Project Number
HUD Program: 221(d)(4) NC
2. Date Received

RMS: HI-00487R

Findings and Recommendations are to be prepared **after** the environmental analysis is completed. Complete items 1 through 15 as appropriate for all projects. For projects requiring an environmental assessment, also complete Parts A and B. For projects categorically excluded under 24 CFR 50.20, complete Part A. Attach notes and source documentation that support the findings.

3. Project Name and Location (Street, City, County, State)

Proposed Mixed Use Facility
727 North Mangum Street
Durham, Durham County, North Carolina

4. Applicant Name and Address (Street, City, State, Zip Code), and Phone

CTC Public Benefit Corporation
1233 Washington Street, Suite 1000
Columbia, South Carolina 29201
803-929-6065

UDI Community Development Corporation, Inc.
631 United Drive
Durham, NC 27713 919-544-4597

5. ☐ Multifamily ☐ Elderly ☑ Other
If Other, explain:
Mixed Use

6. Number of
____ Dwelling Units
1 Buildings
3 Stories
0.032 Acres

7. Displacement ☑ No ☐ Yes
If Yes, explain:

8. ☑ New Construction ☐ Rehabilitation ☐ Refinance ☐ Other
If Other, explain:

9. Has an environmental report (Federal, State, or local) been used in completing this form? ☐ No ☑ Yes
If Yes, identify: **A Phase 1 ESA was completed by Dominion Due Diligence Group and Federal and State databases were compiled by Environmental FirstSearch.**

10. Planning Findings. Is the project in compliance or conformance with the following plans?

Local Zoning	☑ Yes	☐ No	☐ Not Applicable
Coastal Zone	☐ Yes	☐ No	☑ Not Applicable
Air Quality (SIP)	☑ Yes	☐ No	☐ Not Applicable

Explain any "No" answer:

11. Environmental Finding (check one)
☐ Categorical exclusion is made in accordance with § 50.20 or
☐ Environmental Assessment and a **Finding of No Significant Impact** (FONSI) is made in accordance with § 50.33 or
☐ Environmental Assessment and a **Finding of Significant Impact** is made, and an Environmental Impact Statement is required in accordance with §§ 50.33(d) and 50.41.

Are there any unresolved conflicts concerning the use of the site?
☐ No ☑ Yes (explain): **Normally unacceptable noise levels**

☐ Project is recommended for approval (List any conditions and requirements) ☐ Project is recommended for rejection (State reasons)

12. Preparer (signature)	Date	13. Supervisor (signature)	Date

14. Comments by Environmental Clearance Officer (ECO) (required for projects over 200 lots/units)

ECO (signature)	Date
X	

15. Comments (if any) by HUD Approving Official

HUD Approving Official (signature)	Date
X	

form **HUD-4128** (1/2002)
ref. 24 CFR Part 50

Previous editions are obsolete

Part A. Compliance Findings for §50.4 Related Laws and Authorities

§ 50.4 Laws and Authorities	Project is in Compliance Yes	No	Source Documentation and Requirements for Approval
16. Coastal Barrier Resources	✓		According to information accessed at http://www.fema.gov/business/nfip/cbrs/cbrs.shtm the subject property is not located within a coastal barrier.
17. Floodplain Management (24 CFR Part 55)	✓		According to FEMA Flood Insurance Rate Map (FIRM) #372008-3100J, dated May 2, 2006, the subject property is located in Zone X, designated as an area outside the 100 and 500-year flood zones and the flood potential for the subject property is minimal.
18. Historic Preservation (36 CFR Part 800)	✓		See Appendix J regarding correspondence with the State and Tribal Historic Preservation Offices.
19. Noise Abatement (24 CFR Part 51 Subpart B)		✓	See Appendix O for the completed HUD Noise Worksheets.
20. Hazardous Operations (24 CFR Part 51 Subpart C)	✓		Site observations and the Environmental FirstSearch Report of state and federally regulated properties.
21. Airport Hazards (24 CFR Part 51 Subpart D)	✓		There are no military airports within 2 ½ miles of the subject property or civil airports within 3,000 feet of the subject property.
22. Protection of Wetlands (E. O. 11990)	✓		A wetland delineation/determination has not been performed at the subject property; however, according to the USFWS National Wetlands Inventory map accessed at http://www.fws.gov/wetlands/Data/Mapper.html and visual observations, there are not suspected to be any wetland areas on the subject property.
23. Toxic Chemicals & Radioactive Materials(§ 50.3(i))	✓		Site observations and the Environmental FirstSearch Report of state and federally regulated properties.
24. Other § 50.4 authorities (e.g., endangered species, sole source aquifers, farmlands protection, flood, insurance, environmental justice)	✓		See HUD Worksheets

Part B. Environmental/Program Factors

Factors	Anticipated Impact/Deficiencies None	Minor	Major	Source Documentation and Requirements for Approval
25 Unique Natural Features and Areas	✓			Visual Observations - See HUD worksheets
26. Site Suitability, Access, and Compatibility with Surrounding Development	✓			Visual Observations - See HUD worksheets
27. Soil Stability, Erosion, and Drainage	✓			Visual Observations - See HUD worksheets
28. Nuisances and Hazards (natural and built)	✓			Visual Observations - See HUD worksheets
29. Water Supply / Sanitary Sewers	✓			According to Michelle with the Durham Public Works Engineering Department (919-560-4326), water and sewer is currently connected to the subject property structure, and will also be available to the proposed structure.
30. Solid Waste Disposal	✓			Based on visual observations of vicinity properties, the subject property will sufficiently serviced in regards to solid waste disposal.
31. Schools, Parks, Recreation, and Social Services	✓			D3G contacted the Durham County Public Schools and Social Services Department; these services will be available to residents of the proposed facility.
32. Emergency Health Care, Fire and Police Services	✓			D3G contacted the Durham County Police, EMS and Fire Department; emergency services will be available to residents of the proposed facility.
33. Commercial / Retail and Transportation	✓			Visual Observations - See HUD worksheets
34. Other	✓			No other property concerns were identified during the site inspection.

Sample Field Notes Checklist

Project Number	HUD Program 221(d)(4) - New Construction

Project Name: **Proposed Mixed Use Facility**

Location (street, city, county/State, & zip code)

727 North Mangum Street, Durham, Durham County, North Carolina 27701

Number of Dwelling Units	Project site is in a location described as
☐ Refinance ☑ New construction ☐ Rehabilitation	☐ Central city ☐ Suburban ☑ Infill urban development ☐ In developing rural area ☐ In undeveloped area

Note to Reader: An Environmental Assessment (EA) is a concise public document that a Federal agency must prepare in order to comply with the National Environmental Policy Act (NEPA) and the related Federal environmental laws and authorities. The EA must support decision making process and provide a clear rationale, justification, and documentation for ratings assigned.

Instructions

It is recommended that this checklist be used by HUD staff who prepare the Environmental Assessment (EA; form HUD-4128). It will constitute full documentation for many factors on the EA, and partial documentation for others. It will avoid narrative reports and expedite the environmental review process. This checklist, which is a slightly revised version of Appendix C of Handbook 1390.2, should be used pending revision of Handbook 1390.2.

The number for each checksheet topic is the number that appears on form HUD-4128. Also, each checklist title/heading is followed by a reference to where the topic appears in the current Handbook 1390.2.

Before the site visit, review the Phase I and all background information submitted with the application (if applicable). During the site visit, the preparers of form HUD-4128 are to: (i) answer all relevant questions on this checklist; (ii) use the spaces provided for comments to include supplemental information as well as to record any recommended mitigation measures or requirements for project approval; (iii) key your answers to the relevant questions (using additional sheets of paper to provide more detailed information); and (iv) use the spaces provided for source documentation to cite the information source used (e.g., title of a technical report, map, or special study; site inspection/field observation; name and location of the qualified data source(s) that provided the information, for example, the local planning agency, the local housing and/or community development agency, the State environmental protection agency, the State Historic Preservation Officer, or other qualified data source.)

Preparers are to obtain and use, as appropriate, any environmental report (Federal, State, or local) that may have already been prepared for the property or area in which the property is located.

Several different types of maps will be useful in completing the review, such as the project plan or plot map, a location map showing major features and facilities in the vicinity, the USGS topographic map and FEMA flood map for the site area, and zoning/land use maps. ***Many of the conditions can and should be recorded directly on the project plan.*** Distances to major features and facilities (e.g., schools and fire stations) and a description of the surrounding area are examples. The plan can then be referenced as "source documentation" on form HUD-4128.

9. Environmental Report

List the Federal, State, or local agencies contacted to obtain their existing environmental reports and other data for the HUD environmental review for the proposed project.

A database of Federal and State agencies was compiled by Environmental FirstSearch for this investigation. The federal listings searched included NPL, NPL De-listed, RCRA-TSD, RCRA, CERCLIS, CORRACTS, Brownfields and ERNS. The state listings searched included UST, LUST, SHWS, Brownfields, VCP, and SWL.

List the major reports obtained. (attach the report(s) or otherwise list the title, author, publication date)

The Environmental FirstSearch is included as Appendix E.

10. Planning Findings

Is the project in compliance or conformance with the local zoning?

☑ Yes ☐ No ☐ Not Applicable If No or Not Applicable, explain.

According to the Durham City-County Planning Department, the subject property is currently zoned DD-S2 (Downtown Design - Support 2), which supports the development of the site as a mixed use facility.

Is the project located within a coastal management zone (CZM)?

☐ Yes ☑ No ☐ Not Applicable

If your answer is Yes, the State Coastal Zone Management (CZM) Agency must make a finding that the project is consistent with the approved State CZM program.

Is the State's finding attached to this checksheet?

☐ Yes ☐ No ☑ Not Applicable

Is the project in compliance with the air quality State Implementation Plan (SIP)?

☑ Yes ☐ No ☐ Not Applicable

Comments:
According to the North Carolina Division of Coastal Management, Durham County is not located within a Coastal Management Zone. The facility is planning to utilize available street parking along North Mangum Street to service the mixed use facility. The increased volume of traffic is not suspected to significantly impact the air quality of the surrounding area.
Source documentation:
Visual observations and http://dcm2.ehnr.state.nc.us/

Are there any unresolved conflicts concerning the use of the site?
☐ Yes ☑ No If your answer is Yes, briefly explain:

16. Coastal Barrier Resources
Is the project located within a coastal barrier designated on a current FEMA flood map or Department of Interior coastal barrier resources map?
☐ Yes ☑ No If your answer is Yes, the law prohibits Federal funding of projects in designated coastal barriers.

17. Flood Management (24 CFR Part 55) (see CF 3 and 4 of Handbook 1390.2)
Is the project located within a floodplain designated on a current FEMA flood map?
☐ Yes ☑ No Identify FEMA flood map used to make this finding:
Community Name and Number: **City of Durham, Community #370086**
Map Panel Number and Date of Map Panel: **0831J, dated May 2, 2006**
If your answer is Yes, use § 55.12 and the floodplain management decisionmaking process (§ 55.20) to comply with 24 CFR Part 55.
Comments:
According to FEMA Flood Insurance Rate Map (FIRM) #372008-3100J, dated May 2, 2006, the subject property is located in Zone X, designated as an area outside the 100 and 500-year flood zones and the flood potential for the subject property is minimal.

Source documentation: (attach § 55.20 analysis)
FEMA Flood Insurance Rate Map (FIRM) #372008-3100J, dated May 2, 2006

18. Historic Preservation (see CF 2 of Handbook 1390.2)
Has the SHPO been notified of the project and requested to provide comments?
☑ Yes ☐ No ☐ Not Applicable
Is the property listed on or eligible for listing on the National Register of Historic Places?
☐ Yes ☑ No
Is the property located within or directly adjacent to an historic district?
☑ Yes ☐ No
Does the property's area of potential effects include an historic district or property?
☑ Yes ☐ No
If your answer is Yes to any of the above questions, consult with the State Historic Preservation Officer (SHPO) and comply with 36 CFR part 800.
Has the SHPO been or is being advised of HUD's finding?
☑ Yes ☐ No ☐ Not Applicable
Comments:
The subject property is not listed, and is not suspected to be eligible to be listed, in the National Register of Historic Places. However, the subject property structure is located within the North Durham-Duke Park National Historic District in the City of Durham. The front building façade is planned to be retained for historical reasons; however, the remainder of the structure is to be demolished. A determination letter has been sent to the North Carolina State Historic Preservation Officer and Tribal Historic Preservation Officer; however, responses have not yet been received.

Source documentation:
The SHPO and THPO correspondences and National Register of Historic Places for the City of Durham are included in Appendix J.

19. Noise Abatement (see CF 1 of Handbook 1390.2)
Is the project located near a major noise source, i.e., civil airports (within 5 miles), military airfields (15 miles), major highways or busy roads (within 1000 feet), or railroads (within 3000 feet)?
☑ Yes ☐ No If your answer is Yes, comply with 24 CFR 51, Subpart B which requires a noise assessment for proposed new construction. Use adopted DNL contours if the noise source is an airport.

Comments:
The subject property is located within 1,000 feet of North Mangum Street (SR 15), North Roxboro Street (SR 501), and West Geer Street. The subject property is located within 3,000 feet of an Amtrak Rail Line and two (2) Norfolk Southern Rail Lines. There are no civil airports within five (5) miles of the subject property or military airfields within fifteen (15) miles of the subject property. The projected 10-year DNL for the subject property is 71.7 decibels (dB), which is considered "normally unacceptable".

Source documentation: (attach NAG worksheets)
See Appendix O for the completed HUD Noise Worksheets

20. Hazardous Industrial Operations (see CF 5 of Handbook 1390.2)

Are industrial facilities handling explosive or fire-prone materials such as liquid propane, gasoline or other storage tanks adjacent to or visible from the project site?

☐ Yes ☑ No If your answer is Yes, use HUD Hazards Guide and comply with 24 CFR Part 51, Subpart C.

Comments:

Source documentation: (attach ASD worksheets)

Visual observations

21. Airport Hazards (see CF 5 of Handbook 1390.2)

Is the project within 3,000 feet from the end of a runway at a civil airport?

☐ Yes ☑ No

Is the project within 2-1/2 miles from the end of a runway at a military airfield?

☐ Yes ☑ No If your answer is Yes to either of the above questions, comply with 24 CFR Part 51, Subpart D.

Comments: **There are no military airports within 2 ½ miles of the subject property or civil airports within 3,000 feet of the subject property.**

Source documentation:

www.aeroplanner.com was utilized to access information on vicinity airports.

22. Protection of Wetlands (E.O. 11990) (see CF 3 and 4 of Handbook 1390.2)

Are there drainage ways, streams, rivers, or coastlines on or near the site?

☐ Yes ☑ No

Are there ponds, marshes, bogs, swamps or other wetlands on or near the site?

☐ Yes ☑ No

For projects proposing new construction and/or filling, the following applies:

Is the project located within a wetland designated on a National Wetlands Inventory map of the Department of the Interior (DOI)?

☐ Yes ☑ No If your answer is Yes, E.O. 11990, Protection of Wetlands, discourages Federal funding of new construction or filling in wetlands and compliance is required with the wetlands decisionmaking process (§ 55.20 of 24 CFR Part 55. Use proposed Part 55 published in the Federal Register on January 1, 1990 for wetland procedures).

Comments: **A wetland delineation/determination has not been performed at the subject property; however, according to the USFWS National Wetlands Inventory map accessed at http://www.fws.gov/wetlands/Data/Mapper.html and visual observations, there are not suspected to be any wetland areas on the subject property.**

Source documentation: (attach § 55.20 analysis for new construction and/or filling)

USFWS National Wetlands Inventory (NWI) map accessed at http://www.fws.gov/wetlands/Data/Mapper.html and visual observations

23. Toxic Chemicals and Radioactive Materials (see CF 5 of Handbook 1390.2)

Has a Phase I (ASTM) Report been submitted and reviewed?

☑ Yes ☐ No If your answer is No, is a Phase I (ASTM) report needed? ☐ Yes ☐ No ☑ Not Applicable

Are there issues that require a special/specific Phase II report before completing the environmental assessment?

☐ Yes ☑ No

Is the project site near an industry disposing of chemicals or hazardous wastes?

☐ Yes ☑ No

Is the site listed on an EPA Superfund National Priorities or CERCLA, or equivalent State list?

☐ Yes ☑ No

Is the site located within 3,000 feet of a toxic or solid waste landfill site?

☐ Yes ☑ No

Does the site have an underground storage tank?

☐ Yes ☑ No

If your answer is Yes to any of the above questions, use current techniques by qualified professionals to undertake investigations determined necessary and comply with § 50.3(i).

Are there any unresolved concerns that could lead to HUD being determined to be a Potential Responsible Party (PRP)?

☐ Yes ☑ No

Comments:

Source documentation: (attach Phase I (ASTM) Report)

The Phase 1 Environmental Site Assessment was completed by D3G in accordance with ASTM E 1527-05 guidelines and HUD protocols.

24. Other

a. Endangered Species (see EF 3.4 of Handbook 1390.2)

Has the Department of Interior list of Endangered Species and Critical Habitats been reviewed?

☑ Yes ☐ No

Is the project likely to affect any listed or proposed endangered or threatened species or critical habitats?

☐ Yes ☑ No ☐ Not Applicable If your answer is Yes, compliance is required with Section 7 of the Endangered Species Act, which mandates consultation with the Fish and Wildlife Service in order to preserve the species.

Comments:

The U.S. Department of the Interior Endangered Species list was reviewed. Based on the developed nature of the subject property, none of the listed species are suspected to inhabit the subject property.

Source documentation:

The U.S. Department of the Interior Threatened and Endangered Species System for North Carolina is located in Appendix K of this report.

b. Sole Source aquifers

Will the proposed project affect a sole source or other aquifer?

☐ Yes ☑ No

Comments

According to an EPA Groundwater and Drinking Water publication, the site is not serviced or supplied by a protected aquifer system. A copy of the EPA Groundwater and Drinking Water publication is provided in Appendix L.

Source documentation:

Environmental Protection Agency Office of Water, Office of Ground Water and Drinking Water National Summary of Sole Source Aquifer Designations. This document is accessible at http://www.epa.gov.

c. Farmlands Protection (see EF 3.3 of Handbook 1390.2)

If the site or area is presently being farmed, does the project conform with the Farmland Protection Policy Act and HUD policy memo?

☐ Yes ☑ No If your answer is Yes, compliance is required with 7 CFR Part 658, Department of Agriculture regulations implementing the Act.

Comments:

According to the U.S. Census Bureau Map, accessed at www.factfinder.census.gov/servlet/ReferenceMapFramesetServlet?_lang=en, the subject property is designated as an urbanized area.

Source documentation:

U.S. Census Bureau Map

d. Flood Insurance

Is the building located or to be located within a Special Flood Hazard Area identified on a current Flood Insurance Rate Map (FIRM)?

☐ Yes ☑ No If your answer is Yes, flood insurance protection is required for buildings located or to be located within a Special Flood Hazard Area as a condition of approval of the project. In addition, compliance with § 55.12 and the floodplain management decisionmaking process (§ 55.20) is required (refer to item #17 above). Document the map used to determine Special Flood Hazard Area in above item #17 pertaining to community name and number, map panel number and date of map panel.

e. Environmental Justice

Is the project located in a predominantly minority and low-income neighborhood?

☐ Yes ☑ No

Does the project site or neighborhood suffer from disproportionately adverse environmental effects on minority and low-income populations relative to the community-at-large?

☐ Yes ☑ No If your answer is Yes, compliance is required with E.O. 12898, Federal Actions to Address Environmental Justice.

Comments:

Based on visual observations, the subject property is not located in a minority or low-income neighborhood. There are no environmental conditions that would have an effect on low-income or minority populations.

Source documentation: **Visual observations**

25. Unique Natural Features and Areas (see EF 3.2 of Handbook 1390.2)

Is the site near natural features (i.e., bluffs or cliffs) or near public or private scenic areas?

☐ Yes ☑ No

Are other natural resources visible on site or in vicinity? Will any such resources be adversely affected or will they adversely affect the project?

☐ Yes ☑ No

Comments:

The subject property is not located near natural features or near public or private scenic areas. In addition, no other natural resources are visible on-site or in the vicinity. There are no Wild and Scenic Rivers in Durham County. A copy of the Wild and Scenic Rivers List for North Carolina is included in Appendix P.

26. Site Suitability, Access, and Compatibility with Surrounding Development (see EF 1.1 and 1.3 of Handbook 1390.2)

	Yes	No
Has the site has been used as a dump, sanitary landfill or mine waste disposal area?	☐	☑
Is there paved access to the site?	☑	☐
Are there other unusual conditions on site?	☐	☑

Is there indication of:

	Yes	No		Yes	No
distressed vegetation	☐	☑	oil/chemical spills	☐	☑
waste material/containers	☐	☑	abandoned machinery, cars, refrigerators, etc.	☐	☑
soil staining, pools of liquid	☐	☑	transformers, fill/vent pipes, pipelines, drainage structures	☐	☑
loose/empty drums, barrels	☐	☑			

Is the project compatible with surrounding area in terms of:

	Yes	No		Yes	No
Land use	☑	☐	Building type (low/high-rise)	☑	☐
Height, bulk, mass	☑	☐	Building density	☑	☐

Will the project be unduly influenced by:

	Yes	No		Yes	No
Building deterioration	☐	☑	Transition of land uses	☐	☑
Postponed maintenance	☐	☑	Incompatible land uses	☐	☑
Obsolete public facilities	☐	☑	Inadequate off-street parking	☐	☑

Are there air pollution generators nearby which would adversely affect the site:

	Yes	No		Yes	No
Heavy industry	☐	☑	Large parking facilities (1000 or more cars)	☐	☑
Incinerators	☐	☑	Heavy travelled highway (6 or more lanes)	☐	☑
Power generating plants	☐	☑	Oil refineries	☐	☑
Cement plants	☐	☑	Other(specify)	☐	☑

Comments:

Source documentation:
Visual observations

27. Soil Stability, Erosion, and Drainage (see EF 1.2 of Handbook 1390.2)

Slopes: ☐ Not Applicable ☐ Steep ☐ Moderate ☑ Slight

	Yes	No	
Is there evidence of slope erosion or unstable slope conditions on or near the site?	☐	☑	
Is there evidence of ground subsidence, high water table, or other unusual conditions on the site?	☐	☑	
Is there any visible evidence of soil problems (foundations cracking or settling, basement flooding, etc.) in the neighborhood of the site?	☐	☑	
Have soil studies or borings been made for the project site or the area?	☐	☐	☑ Unknown
Do the soil studies or borings indicate marginal or unsatisfactory soil conditions?	☐	☐	☑ Unknown
Is there indication of cross-lot runoff, swales, drainage flows on the property?	☐	☑	
Are there visual indications of filled ground?	☐	☑	
If your answer is Yes, was a 79(g) report/analysis submitted?	☐	☐	☑ Not Applicabl
Are there active rills and gullies on site?	☐	☑	
If the site is not to be served by a municipal waste water disposal system, has a report of the soil conditions suitable for on-site septic systems been submitted?	☐	☐	☑ Not Applicabl
Is a soils report (other than structural) needed?	☐	☑	
Are structural borings or a dynamic soil analysis/geological study needed?	☐	☑	

Comments:
There is no evidence of soil problems or unstable conditions on the subject property. The topography of the site slopes to the northeast. According to the NRCS Web Soil Survey, accessed at http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx, there are no engineering restraints listed for the soil types on the subject property.

Source documentation:
Visual observations and the NRCS Web Soil Survey of Durham County

28. Nuisances and Hazards (see EF 1.3 and 1.4 of Handbook 1390.2)

Will the project be affected by natural hazards:

	Yes	No		Yes	No
Faults, fracture	☐	☑	Fire hazard materials	☐	☑
Cliffs, bluffs, crevices	☐	☑	Wind/sand storm concerns	☐	☑
Slope-failures from rains	☐	☑	Poisonous plants, insects, animals	☐	☑
Unprotected water bodies	☐	☑	Hazardous terrain features	☐	☑

Will the project be affected by built hazards and nuisances:

	Yes	No		Yes	No
Hazardous street	☐	☑	Inadequate screened drainage catchments	☐	☑
Dangerous intersection	☐	☑	Hazards in vacant lots	☐	☑
Through traffic	☐	☑	Chemical tank-car terminals	☐	☑
Inadequate separation of pedestrian/vehicle traffic	☐	☑	Other hazardous chemical storage	☐	☑
Children's play areas located next to freeway or other high traffic way	☐	☑	High-pressure gas or liquid petroleum transmission lines on site	☐	☑
Inadequate street lighting	☐	☑	Overhead transmission lines	☐	☑
Quarries or other excavations	☐	☑	Hazardous cargo transportation routes	☐	☑
Dumps/sanitary landfills or mining	☐	☑	Oil or gas wells	☐	☑
Railroad crossing	☐	☑	Industrial operations	☐	☑

Will the project be affected by nuisances:

	Yes	No		Yes	No
Gas, smoke, fumes	☐	☑	Unsightly land uses	☐	☑
Odors	☐	☑	Front-lawn parking	☐	☑
Vibration	☐	☑	Abandoned vehicle	☐	☑
Glare from parking area	☐	☑	Vermin infestation	☐	☑
Vacant/boarded-up buildings	☐	☑	Industrial nuisances	☐	☑
			Other (specify)	☐	☑

Comments:
No "nuisances" or "hazards" were observed at the subject property or surrounding properties during the site inspection.

Source documentation:
Visual observations

29. Water, Supply, Sanitary Sewers, and Solid Waste Disposal (see EF 2.1, 2.2, and 2.4 of Handbook 1390.2)

Is the site served by an adequate and acceptable:

water supply
☑ Yes ☐ No ☑ Municipal ☐ Private

sanitary sewers and waste water disposal systems
☑ Yes ☐ No ☑ Municipal ☐ Private

trash collection and solid waste disposal
☑ Yes ☐ No ☐ Municipal ☑ Private

If the water supply is non-municipal, has an acceptable "system" been approved by appropriate authorities and agencies?
☐ Yes ☐ No ☑ Not Applicable

If the sanitary sewers and waste water disposal systems are non-municipal, has an acceptable "system" been approved by appropriate authorities and agencies?
☐ Yes ☐ No ☑ Not Applicable

Comments:
According to Michelle with the Durham Public Works Engineering Department (919-560-4326), water and sewer is currently located on the adjoining streets to the subject property, and will be available to the proposed structures. In addition, based on visual observations of vicinity properties, the subject property will be sufficiently serviced in regards to solid waste disposal.

Source documentation:
Visual observations and Michelle with the Durham Public Works Engineering Department (919-560-4326)

31. Schools, Parks, Recreation, and Social Services (see U/EF 4, 5, and 6 of Handbook 1390.2)

Will the local school system have the capability to service the potential school age children from the project?

☑ Yes ☐ No

Are parks and play spaces available on site or nearby?

☑ Yes ☐ No

Will social services be available on site or nearby for residents of the proposed project?

☑ Yes ☐ No

Comments:

D3G contacted the Durham County Public Schools and Social Services Department; these services will be available to residents of the proposed facility.

Source documentation:

Durham County Social Services Department, Ms. Gerri Robinson, 919-560-4582
Durham County Public Schools, Ms. Sylvia, 919-560-2000

32. Emergency Health Care, Fire and Police Services (see U/EF 7, 8, and 9 of Handbook 1390.2)

Are emergency health care providers located within reasonable proximity to the proposed project?

☑ Yes ☐ No Approximate response time: **< 8 minutes**

Are police services located within reasonable proximity to the proposed project?

☑ Yes ☐ No Approximate response time: **< 10 minutes**

Is fire fighting protection ☐ municipal ☑ volunteer adequate and equipped to service the project?

☑ Yes ☐ No Approximate/estimated response time: **< 10 minutes**

Comments:

D3G contacted the Durham County Police, EMS and Fire Department; emergency services will be available to residents of the proposed facility.

Source documentation:

Durham Fire Department, Jeff Bunnell, 919-560-4242
Durham Police Department, Dispatcher, 919-560-4427
Durham EMS, Mike, 919-560-8285

33. Commercial/Retail and Transportation (see U/EF 10 and 11 of Handbook 1390.2)

Are commercial/retail shopping services nearby?

☑ Yes ☐ No

Is the project accessible to employment, shopping and services by

☑ public transportation or ☐ private vehicle?

Is adequate public transportation available from the project to these facilities?

☑ Yes ☐ No

Are the approaches to the project convenient, safe and attractive?

☑ Yes ☐ No

11. Conditions and Requirements for Approval

Are mitigation measures required?

☑ Yes ☐ No

If your answer is Yes, list and describe:

#19 Continued From 2 of 8:

Pursuant to 24 CFR 51.101(a)(3), the composite DNL 71.7 dB is "normally unacceptable". The requirements set out in Section 51.104(a) are designated to insure that interior levels do not exceed the established 45 dB level. The calculated projected exterior noise value is 71.7 dB; therefore, the combined wall, window and door STC ratings will need to reduce the interior noise level by at least 26.7 dB.

Brief Description of the Project:

The subject property consists of one (1) single-story vacant brick building constructed in 1926. The subject property structure is situated on 0.032 acres of land and contains a gross building area of approximately 1,680 square feet. The subject property is bounded by cleared, undeveloped land to the north; North Mangum Street, Cleveland Street, single-family residences, and UDI Resource Center to the east; Iglesia Evangelicia Principe De Paz, a vacant store, O'Briants Fire Extinguisher, Durham Skateboard Equipment, Bull City Barbers, Labor Work Source , North Mangum Street, and the Shabach Outreach Ministries Christian Church to the south; and cleared, undeveloped land, Carolina Ceramic Coatings, and Terreiro Arte De E Cultura to the west. The subject property is the proposed location of a three-story mixed use facility. The subject property is currently connected to municipally supplied water and sewer.

Field Inspection on (date) **November 9, 2010** By (signature) STA

APPENDIX O

HUD Noise Worksheets

DOMINION
Due Diligence Group

RE: Noise Issues at the Proposed Mixed Use Facility
727 North Mangum Street
Durham, North Carolina

Dominion Due Diligence Group has calculated the estimated noise characteristics of the Proposed Mixed Use Facility located at 727 North Mangum Street in Durham, North Carolina.

There are no military airfields within 15 miles or civil airports within 5 miles of the subject property.

The subject property is located within 1,000 feet of North Mangum Street (SR 15), North Roxboro Street (SR 501) and West Geer Street. The noise value was calculated for the roads and the DNL value for roads is 71.2 decibels (dB). In addition, these counts were projected out ten (10) years. The ten (10) year projection is 71.7 dB.

An Amtrak and two (2) Norfolk Southern railway lines are located within 3,000 feet of the subject property. The noise value was calculated for the railroads and the DNL value for railroads is 50.8 dB.

The projected DNL value for all noise sources is 71.7 dB. Pursuant to 24 CFR 51.101(a)(3), the composite DNL 71.7 dB is "normally unacceptable"; however, it should not result in the denial of HUD support for an otherwise acceptable proposed facility. The requirements set out in Section 51.104(a) are designated to ensure that interior levels do not exceed the established 45 dB level. The calculated projected exterior noise value is 71.7 dB; therefore, the combined wall, window and door STC ratings will need to reduce the interior noise level by at least 26.7 dB. However, this noise level is a marketability factor, which HUD should consider in determining the amount of insurance or other assistance that may be given to the subject property.

CORPORATE HEADQUARTERS ◆ 4121 COX ROAD, SUITE 200 ◆ GLEN ALLEN, VIRGINIA 23060
804.358.2020 ◆ FAX 804.358.3003 ◆ WWW.D3G.BIZ
Providing nationwide service to protect your investments

Worksheet A
Site Evaluation

Noise Assessment Guidelines

Site Location
727 North Mangum Street

Program
HUD 221(d)(4) **New Construction**

Project Name
Proposed Mixed Use Facility

Locality
Durham, Durham County, North Carolina

Date of Construction/Property Description
Proposed three-story mixed use facility

File Number

Sponsors Name	Phone
CTC Public Benefit Corporation	803-929-6063
Street Address	**City, State**
1233 Washington Street, Suite 1000	Columbia, South Carolina

	Acceptability Category	DNL	Predicted for Operations in Year	10 Year Projections
1. Roadway Noise	65 - 75	71.2	2010	71.7
2. Aircraft Noise	< 65	< 65	N/A	
3. Railway Noise	< 65	50.8	2010	
Value of DNL for all noise sources: (see page 3 for combination procedure)		71.2		71.7

Final Site Evaluation (circle one)

Acceptable

Normally Unacceptable

Unacceptable

Signature Katie Carre Date 11/22/2010

Worksheet B
Aircraft Noise

Noise Assessment Guidelines

List all civil airports within 5 miles and military airports within 15 miles of the subject property:

There are no civil airports within 5 miles or military airports within 15 miles.

1 _____
2 _____
3 _____
4 _____

Necessary Information:	Airport 1	Airport 2	Airport 3	Airport 4
1. Are DNL, NEF, or CNR contours available? (Yes/No)				
2. Any supersonic aircraft operations? (Yes/No)				
3. Estimating approximate contours from Figure 3				
a. number of nighttime jet operations				
b. number of daytime jet operations				
c. effective number of operations				
(10 times a + b)				
d. distance A for 65 dB				
70 dB				
75 dB				
e. distance B for 65 dB				
70 dB				
75 dB				
4. Estimating DNL from table 2:				
a. distance from 65 dB contour to flight path, D^1				
b. distance from NAL to flight path, D^2				
c. D^2 divided by D^1				
d. DNL				
5. Operations projected for what year?				
6. Total DNL from all airports			< 65	

Signature Katie Carr

Date 11/22/2010

Roadway Noise

List all major roads (4 lanes or more) within 1,000 feet of the subject property:

1 North Mangum Street (SR 15)
2 North Roxboro Street (SR 501)
3 West Geer Street
4

Necessary Information:

	Road 1	Road 2	Road 3	Road 4
1. Distance in feet from the NAL to the edge of the road				
a. nearest lane	30	535	930	
b. farthest lane	50	575	960	
c. average (effective distance)	40	555	945	
2. Distance to stop sign	> 600 ft	> 600 ft	> 600 ft	
3. Road gradient in percent	0	0	0	
4. Average speed in mph				
a. Automobiles	35	35	35	
b. Heavy trucks - uphill	35	35	35	
c. Heavy trucks - downhill	35	35	35	
5. 24 hour average number of automobiles and medium trucks in both directions (ADT)	7,575	7,474	4,040	
a. Automobiles	6969	6876	3717	
b. Medium trucks	303	299	162	
c. Effective (a + (10xb)	9999	9866	5333	
6. 24 hour average number of heavy trucks				
a. uphill	303	299	162	
b. downhill	0	0	0	
c. total	303	299	162	
7. Fraction of nighttime traffic (10 p.m. to 7 a.m.)	15%	15%	15%	
8. Traffic projected for what year?	2010	2010	2010	

*Traffic count information for North Mangum Street (SR 15), North Roxboro Street (SR 501), and West Geer Street was obtained from the North Carolina Department of Transportation website accessed at http://www.ncdot.org/travel/statemapping/trafficvolumemaps/. Distances were obtained using Google Earth and an undated proposed site plan provided by the client. According to Mr. Robert Keith Barnhouse with Ellen Cassilly Architect, Inc. (919-530-1149), the residential portion of the proposed subject property building is located about 24 feet above the street level. Distances were extrapolated using this information.

Adjustments for Automobile Traffic

	9 Stop and go Table 3		10 Average Speed Table 4		11 Night time Table 5		12 Auto ADT (line 5c)		13 Adjusted Auto ADT		14 DNL Wrkchrt 1		15 Barrier Attenuation		16 Partial DNL
Road No. 1	1.0	X	0.40	X	1.0	X	9999	=	4,000		66.0	-	0	=	66.0
Road No. 2	1.0	X	0.40	X	1.0	X	9866	=	3,946		48.0	-	0	=	48.0
Road No. 3	1.0	X	0.40	X	1.0	X	5333	=	2,133		42.5	-	0	=	42.5
Road No. 4		X		X		X		=				-		=	

Adjustments for Heavy Truck Traffic

	17 Gradient Table 6		18 Average Speed Table 7		19 Truck ADT 2		20		21		22 Stop and go Table 8		23 Night time Table 5		24 Adjusted Truck ADT		25 DNL Wrkchrt 2		26 Barrier Attenuation		27 Partial DNL
Uphill	1.0	X	0.81	X	303	=	245														
Road 1									245	X	1.0	X	1.0	=	245		69.5	-	0	=	69.5
Downhill		X		X		=															
Uphill	1.0	X	0.81	X	299	=	242														
Road 2									242	X	1.0	X	1.0	=	242		52.5	-	0	=	52.5
Downhill		X		X		=															
Uphill	1.0	X	0.81	X	162	=	131														
Road 3									131	X	1.0	X	1.0	=	131		46.0	-	0	=	46.0
Downhill		X		X		=															
Uphill		X		X		=															
Road 4										X		X		=				-		=	
Downhill		X		X		=															

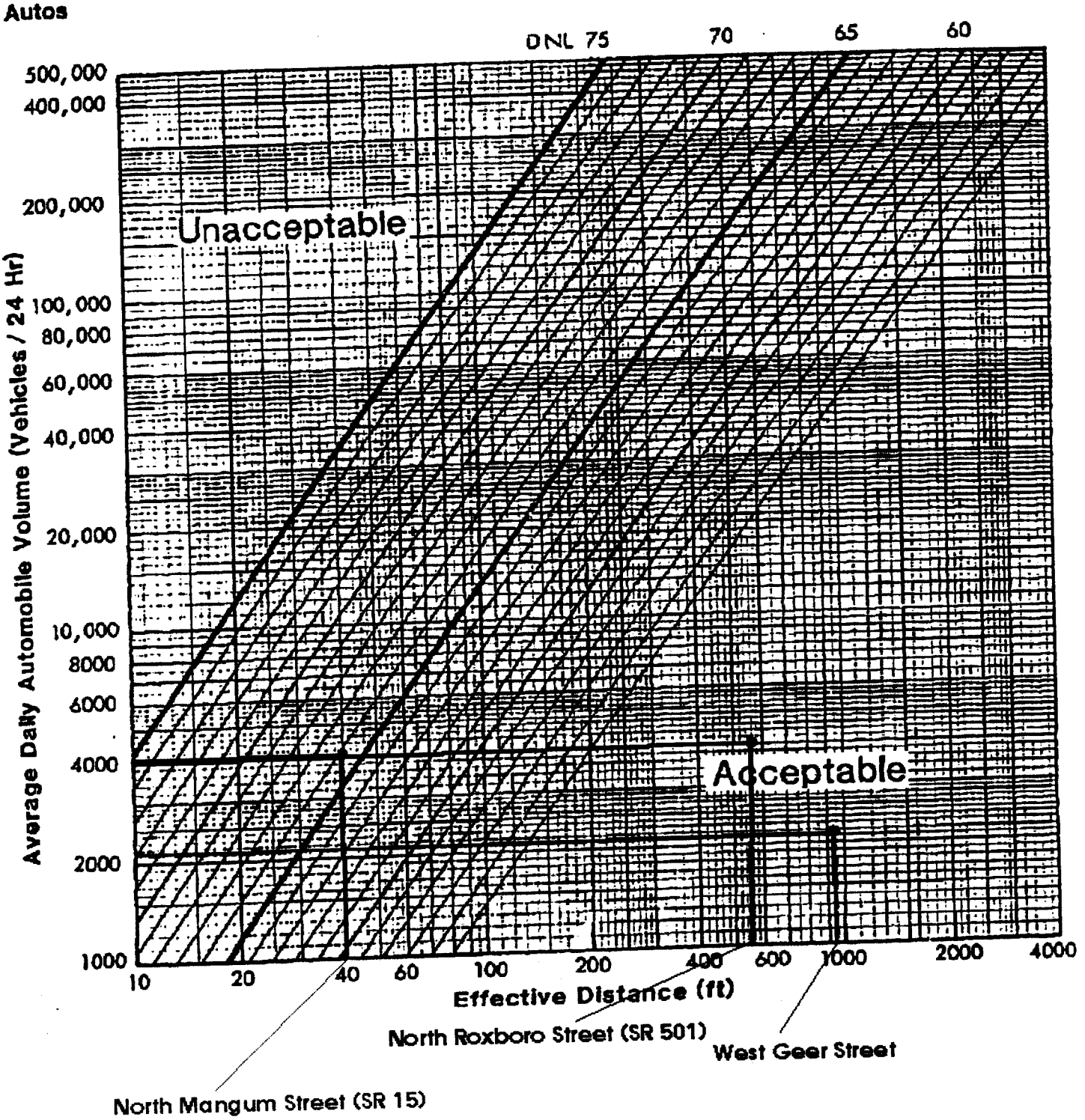
Combined Automobile & Heavy Truck DNL

Road 1	71.2	Road 2	53.9	Road 3	47.7	Road 4		Total DNL for All Roads	71.2

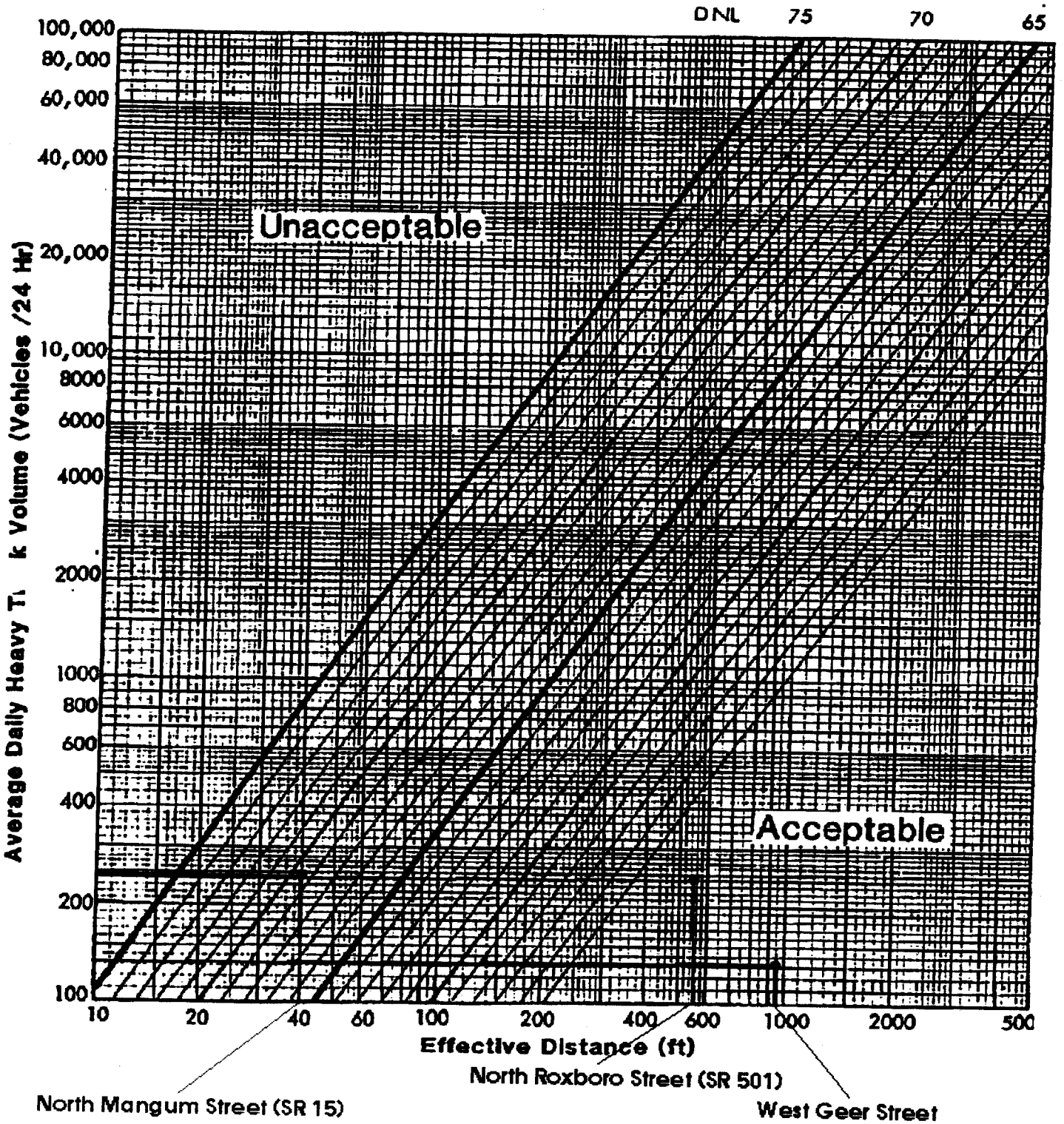
Signature Katie Carle

Date 11/22/2010

Workchart 1
Autos



Workchart 2
Heavy Trucks



ROAD		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
orth Mangum Street (SR 1	gross total	7500	7575	7651	7727	7805	7883	7961	8041	8121	8203	8285	8368
	total cars (92%)	6900	6969	7039	7109	7180	7252	7324	7398	7472	7546	7622	7698
	total medium trucks (4%)	300	303	306	309	312	315	318	322	325	328	331	335
	Effective ADT (a+(10xb)	9900	9999	10099	10200	10302	10405	10509	10614	10720	10827	10936	11045
	Total Heavy Trucks (4%)	300	303	306	309	312	315	318	322	325	328	331	335

ROAD		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
orth Roxboro Street (SR 50	gross total	7400	7474	7549	7624	7700	7777	7855	7934	8013	8093	8174	8256
	total cars (92%)	6808	6876	6945	7014	7084	7155	7227	7299	7372	7446	7520	7595
	total medium trucks (4%)	296	299	302	305	308	311	314	317	321	324	327	330
	Effective ADT (a+(10xb)	9768	9866	9964	10064	10165	10266	10369	10473	10577	10683	10790	10898
	Total Heavy Trucks (4%)	296	299	302	305	308	311	314	317	321	324	327	330

ROAD		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
West Geer Street	gross total	4000	4040	4080	4121	4162	4204	4246	4289	4331	4375	4418	4463
	total cars (92%)	3680	3717	3754	3792	3829	3868	3906	3945	3985	4025	4065	4106
	total medium trucks (4%)	160	162	163	165	166	168	170	172	173	175	177	179
	Effective ADT (a+(10xb)	5280	5333	5386	5440	5494	5549	5605	5661	5717	5775	5832	5891
	Total Heavy Trucks (4%)	160	162	163	165	166	168	170	172	173	175	177	179

***D3G contacted the North Carolina Department of Transportation Durham Office (919-220-4600) and the City of Durham Transportation Office (919-560-4366) in order to obtain annual growth percentages, heavy truck percentages, medium truck percentages, and car percentages for North Mangum Street, North Roxboro Street, and West Geer Street. However, according to Marek Wiktor (mwiktor@ncdot.gov) and Phil Loziuk with the City of Durham Transportation Office, there is no available data. Therefore, D3G utilized a breakdown of the traffic as follows: 92% cars, 4% medium trucks and 4% heavy trucks.

***D3G has obtained traffic count information for North Mangum Street (SR 15), North Roxboro Street (SR 501), and West Geer Street from the years 1997, 1999, 2001, 2003, 2005, 2007, and 2009 from the North Carolina Department of Transportation, accessed at http://www.ncdot.org/travel/statemapping/trafficvolumemaps/. The average annual daily traffic for this this twelve-year span varied considerably and suggested little growth. As a result, D3G has projected a conservative estimate of 1% traffic growth per year between the years 2010 and 2020.

Worksheet C
Roadway Noise - 10 Year Projection

Page 1

Noise Assessment Guidelines

List all major roads (4 lanes or more) within 1,000 feet of the subject property:

1 North Mangum Street (SR 15)
2 North Roxboro Street (SR 501)
3 West Geer Street
4

Necessary Information:

	Road 1	Road 2	Road 3	Road 4
1. Distance in feet from the NAL to the edge of the road				
a. nearest lane	30	535	930	
b. farthest lane	50	575	960	
c. average (effective distance)	40	555	945	
2. Distance to stop sign	> 600 ft	> 600 ft	> 600 ft	
3. Road gradient in percent	0	0	0	
4. Average speed in mph				
a. Automobiles	35	35	35	
b. Heavy trucks - uphill	35	35	35	
c. Heavy trucks - downhill	35	35	35	
5. 24 hour average number of automobiles and medium trucks in both directions (ADT)	8368	8256	4463	
a. Automobiles	7698	7595	4106	
b. Medium trucks	335	330	179	
c. Effective (a + (10xb)	11045	10898	5891	
6. 24 hour average number of heavy trucks				
a. uphill	335	330	179	
b. downhill	0	0	0	
c. total	335	330	179	
7. Fraction of nighttime traffic (10 p.m. to 7 a.m.)	15%	15%	15%	
8. Traffic projected for what year?	2020	2020	2020	

Worksheet C **Page 2** Noise Assessment Guidelines

Roadway Noise - 10 Year Projection

Adjustments for Automobile Traffic

	9 Stop and go Table 3		10 Average Speed Table 4		11 Night time Table 5		12 Auto ADT (line 5c)		13 Adjusted Auto ADT	14 DNL Wrkchrt 1		15 Barrier Attenuation		16 Partial DNL
Road No. 1	1.0	X	0.40	X	1.0	X	11,045	=	4,418	66.5	-	0	=	66.5
Road No. 2	1.0	X	0.40	X	1.0	X	10,898	=	4,359	48.5	-	0	=	48.5
Road No. 3	1.0	X	0.40	X	1.0	X	5,891	=	2,356	43.0	-	0	=	43.0
Road No. 4		X		X		X		=			-		=	

Adjustments for Heavy Truck Traffic

	17 Gradient Table 6		18 Average Speed Table 7		19 Truck ADT 2		20	21		22 Stop and go Table 8		23 Night time Table 5		24 Adjusted Truck ADT		25 DNL Wrkchrt 2		26 Barrier Attenuation		27 Partial DNL
Uphill	1.0	X	0.81	X	335	=	271													
Road 1								271	X	1.0	X	1.0	=	271		70.0	-	0	=	70.0
Downhill		X		X		=														
Uphill	1.0	X	0.81	X	330	=	267													
Road 2								267	X	1.0	X	1.0	=	267		53.0	-	0	=	53.0
Downhill		X		X		=														
Uphill	1.0	X	0.81	X	179	=	145													
Road 3								145	X	1.0	X	1.0	=	145		47.0	-	0	=	47.0
Downhill		X		X		=														
Uphill		X		X		=														
Road 4									X		X		=				-		=	
Downhill		X		X		=														

Combined Automobile & Heavy Truck DNL

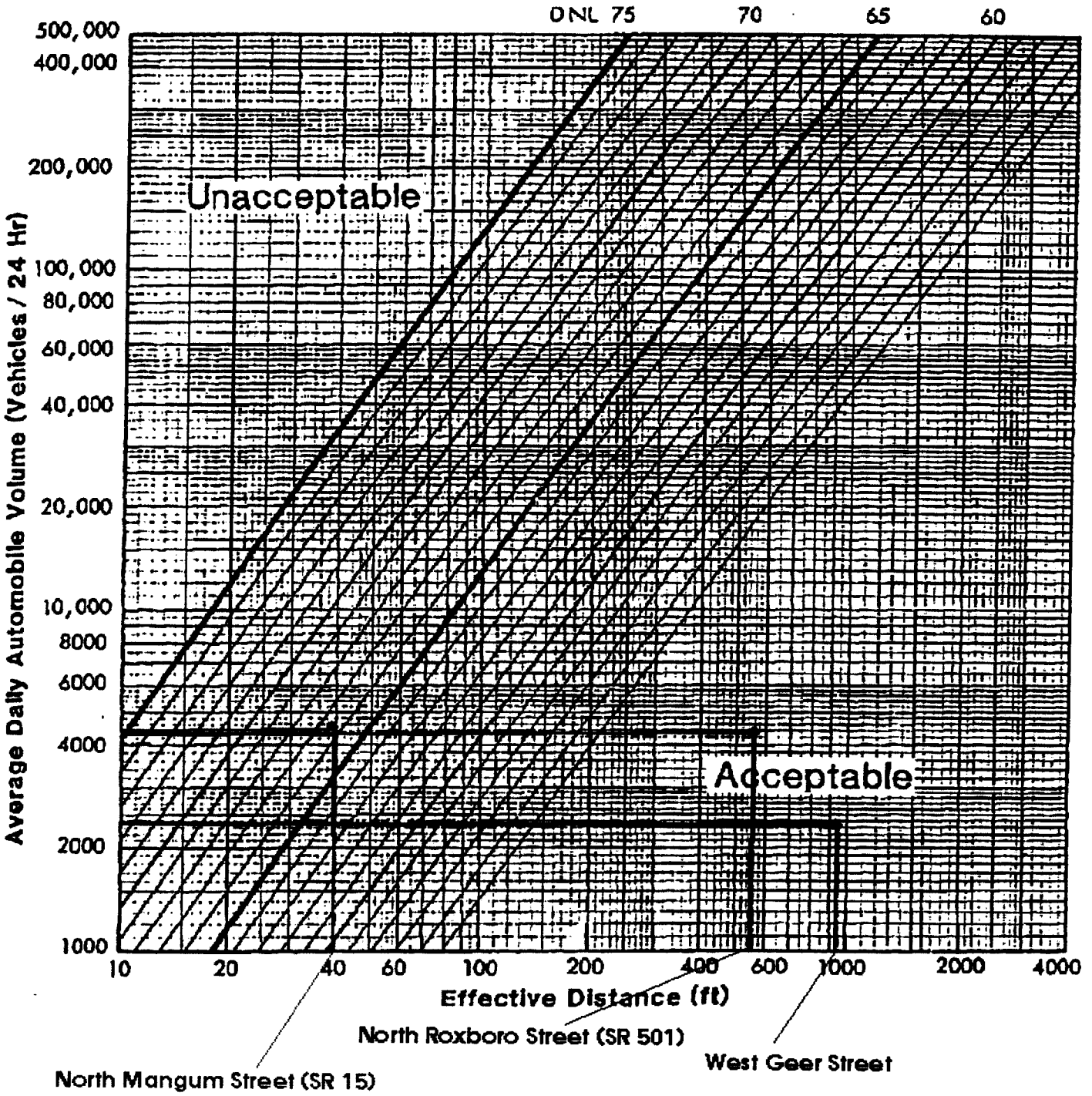
Road 1 71.7 Road 2 54.4 Road 3 48.5 Road 4 _____

Total DNL for All Roads 71.7

Signature Katia Carre

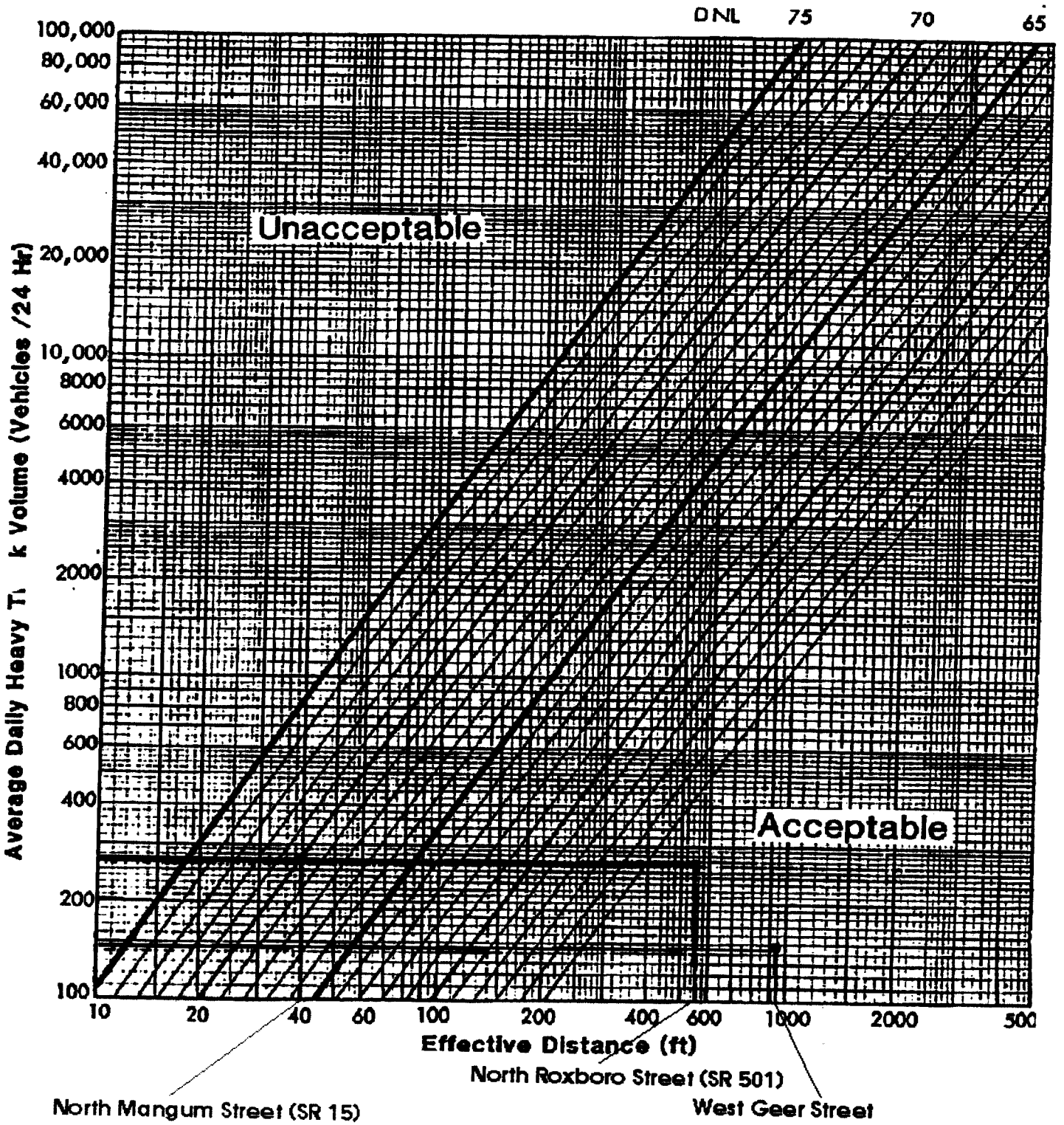
Date 11/22/2010

Workchart 1
Autos



10-YEAR PROJECTIONS

Workchart 2
Heavy Trucks



10-YEAR PROJECTIONS

Railway Noise

List all railways within 3,000 feet of the subject property:

1 Amtrak
2 Norfolk Southern (south of the subject property)
3 Nortfolk Southern (east of the subject property)
4

Necessary Information:

	Railway 1	Railway 2	Railway 3	Railway 4
1. Distance in feet from the NAL to the railway track	2970	2970	2520	
2. Number of trains in 24 hours				
a. diesel	6	26	4	
b. electrified				
3. Fraction of operations occurring at night (10 p.m. - 7 a.m.)	0%	62%	100%	
4. Number of diesel locomotives per train	1	2	2	
5. Number of rail cars per train:				
a. diesel trains	7	50	50	
b. electrified trains				
6. Average train speed	45	59	10	
7. Is track welded or bolted?	Welded	Welded	Welded	
8. Is the site opposite a section of tracks between whistle stops?	No	No	No	

*Train counts for Amtak were obtained from Danny at the Durham Amtrak Station (919-956-7932).
**Train counts for the remaining Norfolk Southern railways were obtained from the Federal Railroad Administration's Office of Safety Analysis website accessed at http://safetydata.fra.dot.gov/officeofsafety/. Distance was obtained using Google Earth and an undated proposed site plan provided by the client.

Railway Noise

Adjustments for Diesel Locomotives

	9 No. of locomotives 2		10 Average Speed Table 9		11 Horns (enter 10)		12 Night time Table 5		13 No. of Trains (line 2a)		14 Adjusted No. of Operations		15 DNL Workchart 3		16 Barrier Attenuation		17 Partial DNL
Rail No. 1	0.5	X	0.675	X	1.0	X	0.43	X	6	=	0.9		30.0	-	0	=	30.0
Rail No. 2	1.0	X	0.51	X	1.0	X	2.34	X	26	=	31		46.5	-	0	=	46.5
Rail No. 3	1.0	X	3.00	X	1.0	X	2.34	X	4	=	28		47.0	-	0	=	47.0
Rail No. 4		X		X		X		X		=				-		=	

Adjustments for Railway Cars or Rapid Transit Trains

	18 Horns on electric trains (enter 100)		19 No. of cars 50		20 Average Speed Table 10		21 Bolted Rails (enter 4)		22 Night time Table 5		23 No. of Trains (line 2a or 2b)		24 Adjusted No. of Operations		25 DNL Workchart		26 Barrier Attenuation		27 Partial DNL
Rail No. 1	1.0	X	0.14	X	2.28	X	1.0	X	0.43	X	6	=	0.8		26.5	-	0	=	26.5
Rail No. 2	1.0	X	1.00	X	3.878	X	1.0	X	2.34	X	26	=	236		43.5	-	0	=	43.5
Rail No. 3	1.0	X	1.00	X	0.11	X	1.0	X	2.34	X	4	=	1.0		27.5	-	0	=	27.5
Rail No. 4		X		X		X		X		X		=				-		=	

Combined Locomotive & Railway Car DNL

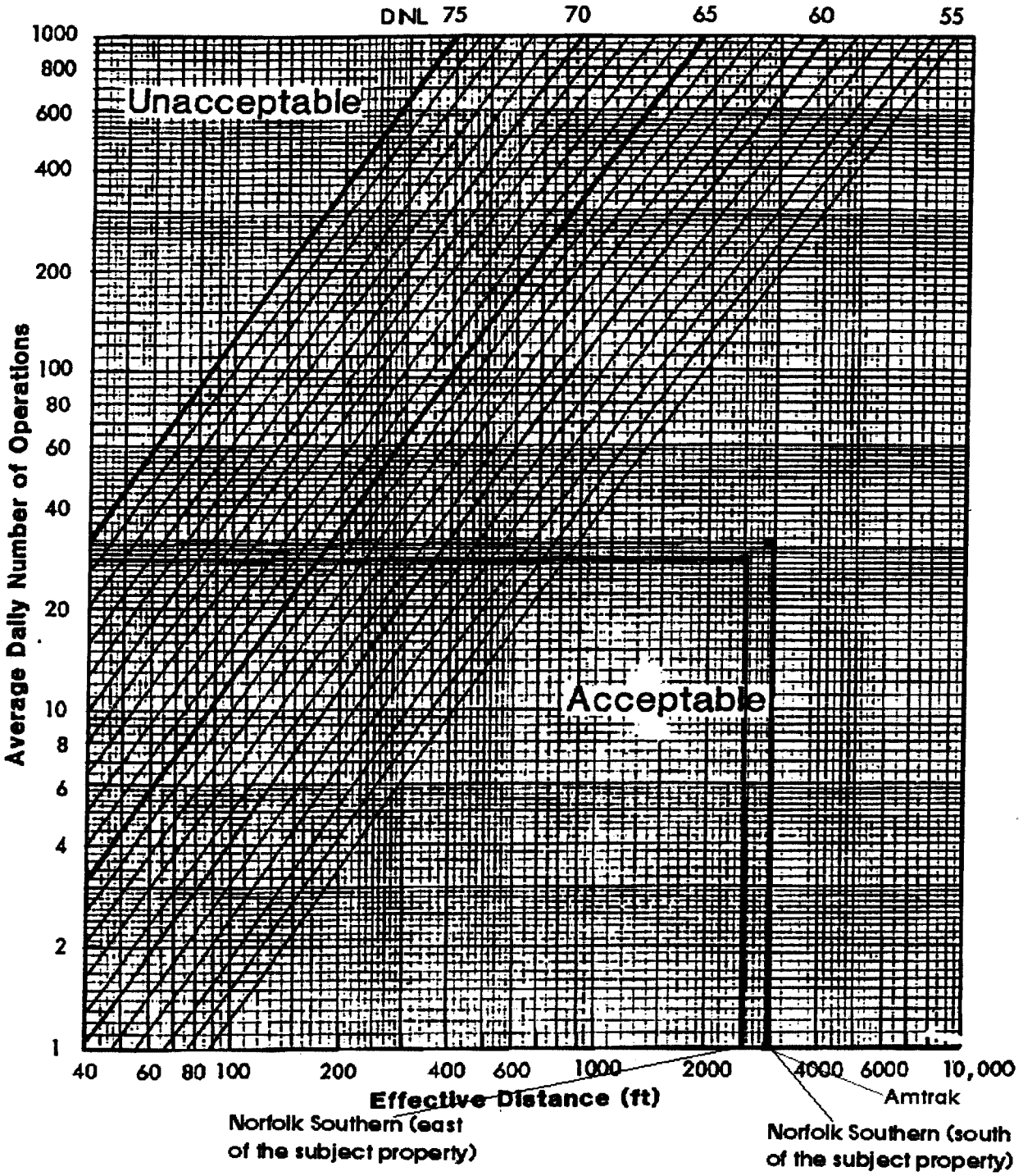
Railway 1 31.7 Railway 2 48.3 Railway 3 47.0 Railway 4 _____

Total DNL for All Railways 50.8

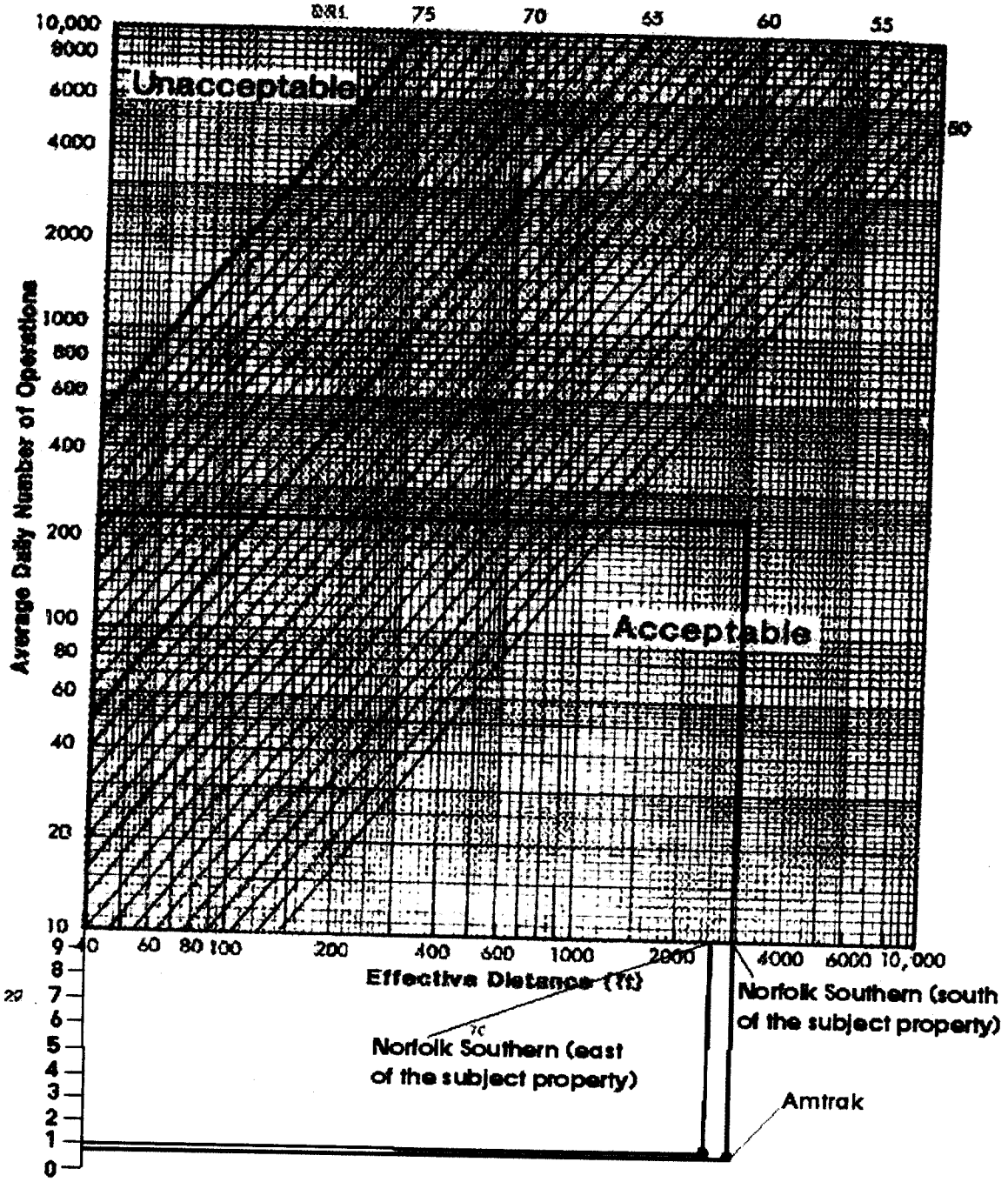
Signature Katie Carle

Date 11/22/2010

Workchart 3
Railroads - Diesel Locomotives



Workchart 4
Railroads - Cars and Rapid Transit



APPENDIX P

North Carolina Wild and Scenic Rivers List

RIVER MILEAGE CLASSIFICATIONS FOR COMPONENTS OF THE NATIONAL WILD AND SCENIC RIVERS SYSTEM

River Present Units in the National System	Administering Agency	Miles by Classification *Wild*	*Scenic*	*Rec'l*	***Total Miles***
7. Middle Fork Salmon, Idaho (P.L. 90-542—October 2, 1968)	Forest Service	103.0	–		103.0
8. Salmon, Idaho (P.L. 96-312—July 23, 1980)	Forest Service	79.0	–	46.0	125.0
9. Wolf, Wisconsin (P.L. 90-542—October 2, 1968)	National Park Service	–	24.0	–	24.0
10. Allagash Wilderness Waterway, Maine (Secretarial Designation—July 19, 1970)	State of Maine	92.5	–	–	92.5
11. Little Miami, Ohio (Secretarial Designation—August 20, 1973)	State of Ohio	–	18.0	48.0	66.0
Little Miami, Ohio (Secretarial Designation—January 28, 1980)	State of Ohio	–	–	28.0	28.0
12. Chattooga, Georgia, North and South Carolina (P.L. 93-279—May 10, 1974)	Forest Service	41.6	2.5	14.6	58.7
13. Little Beaver, Ohio (Secretarial Designation—October 23, 1975)	State of Ohio	–	33.0	–	33.0
14. Snake, Idaho & Oregon (P.L. 94-199—December 31, 1975)	Forest Service	31.5	36.0	–	67.5
15. Rapid, Idaho (P.L. 94-199—December 31, 1975)	Forest Service	26.8	–	–	26.8
16. New, North Carolina (Secretarial Designation—April 13, 1976)	State of North Carolina	–	26.5	–	26.5

RIVER MILEAGE CLASSIFICATIONS FOR COMPONENTS OF THE NATIONAL WILD AND SCENIC RIVERS SYSTEM

River Present Units in the National System	Administering Agency	Miles by Classification *Wild*	*Scenic*	*Rec'l*	***Total Miles***
60. Loxahatchee, Florida (Secretarial Designation—May 17, 1985)	State of Florida	1.3	5.8	0.5	7.6
61. Horsepasture, North Carolina (P.L. 99-530—October 26, 1986)	Forest Service	–	3.6	0.6	4.2
62. Cache la Poudre, Colorado (P.L. 99-590—October 30, 1986)	Forest Service National Park Service	18.0 12.0	– –	46.0 –	64.0 12.0
63. Black Creek, Mississippi (P.L. 99-590—October 30, 1986)	Forest Service	–	21.0	–	21.0
64. Saline Bayou, Louisiana (P.L. 99-590—October 30, 1986)	Forest Service	–	19.0	–	19.0
65. Klickitat, Washington (P.L. 99-663—November 17, 1986)	Forest Service	–	–	10.0	10.0
66. White Salmon, Washington (P.L. 99-663—November 17, 1986)	Forest Service	–	9.0	–	9.0
White Salmon, Washington (P.L. 109-44—August 2, 2005)	Forest Service	6.7	13.3	–	20.0
67. Merced, California (P.L. 100-149—November 2, 1987)	Forest Service National Park Service Bureau of Land Management	15.0 53.0 3.0	2.0 14.0 –	12.5 14.0 1.0	29.5 81.0 4.0
Merced, California (P.L. 102-432—October 23, 1992)	Bureau of Land Management	–	–	8.0	8.0

RIVER MILEAGE CLASSIFICATIONS FOR COMPONENTS OF THE NATIONAL WILD AND SCENIC RIVERS SYSTEM

River Present Units in the National System	Administering Agency	Miles by Classification *Wild*	*Scenic*	*Rec'l*	*Total Miles*
150. West Branch Farmington, Connecticut (P.L. 103-313—August 26, 1994)	National Park Service and State of Connecticut and Local Government	–	–	14.0	14.0
151. Wallowa, Oregon (Secretarial Designation—July 23, 1996)	State of Oregon and Bureau of Land Management	–	–	10.0	10.0
152. Elkhorn Creek, Oregon (P.L. 104-208—September 30, 1996)	Forest Service Bureau of Land Management	5.8 –	– 0.6	– –	5.8 0.6
153. Clarion, Pennsylvania (P.L. 104-314—October 19, 1996)	Forest Service	–	17.1	34.6	51.7
154. Lamprey, New Hampshire (P.L. 104-333—November 12, 1996)	National Park Service and Local Government	–	–	11.5	11.5
Lamprey, New Hampshire (P.L. 106-192—May 2, 2000)	National Park Service and Local Government	–	–	12.0	12.0
155. Lumber, North Carolina (Secretarial Designation—September 28, 1998)	State of North Carolina	–	60.0	21.0	81.0
156. Sudbury, Assabet, Concord, Massachusetts (P.L. 106-20—April 9, 1999)	National Park Service and State of Massachusetts and Local Government	–	14.9	14.1	29.0
157. Wilson Creek, North Carolina (P.L. 106-261—August 18, 2000)	Forest Service	4.6	2.9	15.8	23.3
158. Wekiva, Florida (P.L. 106-299—October 13, 2000)	National Park Service and State of Florida	31.4	2.1	8.1	41.6

RIVER MILEAGE CLASSIFICATIONS FOR COMPONENTS OF THE NATIONAL WILD AND SCENIC RIVERS SYSTEM

River Present Units in the National System	Administering Agency	Miles by Classification *Wild*	*Scenic*	*Rec'l*	***Total Miles***
159. White Clay Creek, Delaware & Pennsylvania (P.L. 106-357—October 24, 2000)	National Park Service and Local Government	–	24.0	166.0	190.0
160. Wildhorse and Kiger Creeks, Oregon (P.L. 106-399—October 30, 2000)	Bureau of Land Management	13.9	–	–	13.9
161. Rio Mameyes, Puerto Rico (P.L. 107-365—December 19, 2002)	Forest Service	2.1	1.4	1.0	4.5
162. Rio de la Mina, Puerto Rico (P.L. 107-365—December 19, 2002)	Forest Service	–	1.2	0.9	2.1
163. Rio Icacos, Puerto Rico (P.L. 107-365—December 19, 2002)	Forest Service	–	2.3	–	2.3
164. Black Butte, California (P.L. 109-362—October 17, 2006)	Forest Service	17.5	3.5	–	21.0
165. Musconetcong, New Jersey (P.L. 109-452—December 22, 2006)	National Park Service	–	3.5	20.7	24.2
166. Eightmile, Connecticut (P.L. 110-229—May 8, 2008)	National Park Service and Local Government		25.3		
167. South Fork Clackamas, Oregon (P.L. 111-11—March 30, 2009)	Forest Service	4.2	–	–	4.2
168. Eagle Creek, Oregon (Mt. Hood National Forest) (P.L. 111-11—March 30, 2009)	Forest Service	8.3	–	–	8.3
169. Middle Fork Hood, Oregon (P.L. 111-11—March 30, 2009)	Forest Service	–	3.7	–	3.7

APPENDIX Q

Asbestos Inspection Report

Asbestos Survey for Renovation

Vacant Commercial Building
727 North Magnum Street
Durham, NC
Project #2010-1345

Prepared for:

Kim Dingledine
Dominion Due Diligence Group
4120 Cox Road
Glen Allen, Virginia 23060

Prepared by:

Chris Burnett
Get The Lead Out, LLC

Signature: Chris Burnett Date: 11/22/2010
Chris Burnett Get The Lead Out, LLC NC Lic. ASB 11063

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Asbestos Inspection Report

Introduction

Scope of the Investigation

This report documents the asbestos inspection and survey of the vacant commercial building located at 727 North Mangum Street in Durham, North Carolina conducted on November 17, 2010, by Ryan Burnett, North Carolina inspector certification number: NC 12661.

Background

The vacant commercial building is a single-story rectangular-shaped structure with two main room areas.

Investigation

The vacant commercial building was visually inspected for suspected asbestos containing materials (ACM) by a North Carolina accredited inspector. A copy of the inspector's accreditation certificate is included in Appendix D. Bulk samples of all suspect ACM's were collected. This report details ACM as identified at the time of inspection only. A focused inspection was conducted for the presence of asbestos containing building materials (ACBM).

AmerSci analyzed the bulk samples. The laboratory is accredited by the National Voluntary Laboratory Accredited Program (NVLAP Accreditation sponsored by the National Institute of Standards and Technology (NIST)). A Copy of their accreditation certificate is included in Appendix D. The samples were analyzed by the accepted method of polarized light microscopy (PLM) using EPA's "Method for the Determination of Asbestos In Bulk Building Materials", EPA/600/R-93/116.

Laboratory results indicate that ASBESTOS WAS DETECTED.

In compliance with the AHERA regulations, material is considered an Asbestos Containing Material (ACM) when it contains greater than one percent asbestos. Likewise, in this report, any material containing concentrations greater than one percent asbestos will be considered "positive". Occasionally, materials containing less than one percent asbestos, or not sampled, are assumed to be a "positive" asbestos containing material at the discretion of the inspectors. A narrative discussion of the AHERA ACM types (i.e., thermal systems insulation, miscellaneous and surfacing materials) found in the vacant residential structure is included in this report where relevant. Bulk sample information appears, estimated quantities of individual asbestos containing materials, material characterization of asbestos containing materials appears on Table 1.

Conclusions

Asbestos containing materials (ACMs) were identified in the patterned 9"x9" green floor tile and 9"x9" white floor tile layer, along with the associated floor tile black mastic

material (Sample 5) observed in the central area of the front main room of the building. The approximate area of this material is 720 SF. Additionally, the black mastic associated with an overlying non-ACM red floor tile layer (Sample 6), was identified as an ACM. The approximate area of this material is 9 SF. The sample locations are depicted on the "Sample Location Map" with identified areas of ACM shown in red included in Appendix A. Photographs are included in Appendix B.

Recommendations

All ACM in quantities equal to or greater than NESHAP reportable quantities* must be removed in accordance with Federal, State and local regulation prior to any demolition or renovation where it may be disturbed.

Asbestos containing materials that are damaged, or not intact, as identified in the "Asbestos Tables" should be repaired or rendered "intact" in order to reduce the risk of asbestos exposure to unprotected personnel.

Although not required by EPA NESHAP rules, removal of less than reportable quantities of ACM prior to demolition may be more cost effective then allowing it to remain in the building. Disposal of building debris that contains any asbestos may be difficult and prohibitively expensive.

All work involving asbestos should be conducted by properly trained and credentialed personnel in full compliance with applicable environmental, health and safety regulations.

Limitations

As is the case with any asbestos inspection, materials that were not readily apparent or were located in concealed locations may not have been identified. If any material that is suspected to contain asbestos, and was not included in this report as a material identified and tested, is discovered, it should be evaluated for asbestos content before it is disturbed.

Although Polarized Light Microscopy (PLM)/Dispersion Staining (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under EPA Asbestos Hazard Emergency Response Act, there may have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. EPA recommends analyzing such materials (floor tiles, mastics and asphalt roofing) using Transmission Electron Microscopy (TEM) when PLM analysis does not detect asbestos in quantities greater than 1%.

Current EPA regulations do not require this additional analysis and the decision to do so is left with the client.

This report is not intended for use as an asbestos removal specification. It is not within the scope of this work to describe all appropriate precautions, safeguards and regulations relating to asbestos.

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TABLE 1
Asbestos Containing Materials

The following materials were tested and found to be Asbestos Containing Materials (ACM) as defined under the EPA NESHAP rules because they contain more than 1% asbestos. See the attached data sheets for are descriptions and sample locations.

MATERIAL		CHARACTERISTICS			ASSESSMENT	
Sample No. Type	**Description/Location**	**% Asbestos Yes/No/Presumed**	**Quantity/Type (If ACM)**	**Friable / Non-Friable**	**Condition**	**Disturbance Potential**
5 / MISC	9"x9" Green floor tile (pattern) / Central area of front main room	4% Chrysotile	720 SF	Non-Friable	Good	High
5 / MISC	Black mastic with the 9"x9" Green floor tile (pattern) / Central area of front main room	3% Chrysotile	Area included above	Non-Friable	Good	High
5 / MISC	9"x9" White floor tile (pattern) / Central area of front main room	5% Chrysotile	Area included above	Non-Friable	Good	High
5 / MISC	Black mastic with the 9"x9" White floor tile (Pattern) / Central area of front main room	4% Chrysotile	Area included above	Non-Friable	Good	High
*6 / MISC	Black mastic with red floor tile (not the floor tile layer) / Front main room central area	2% Chrysotile	9 SF	Non-Friable	Good	High

***Even though the red floor tile material was determined not to be an ACM, this ACM black mastic material is economically infeasible to separate from the non-ACM red floor tile layer and will therefore have to be removed as one unit.**

TABLE 2
Non-Asbestos Containing Materials

The materials listed in Table 2 were tested and found not to be ACM either because they contained less than or equal to 1% asbestos or no asbestos.

MATERIAL		CHARACTERISTICS			ASSESSMENT	
Sample No. Type	**Description/Location**	**% Asbestos Yes/No/Presumed**	**Quantity/Type (If ACM)**	**Friable / Non-Friable**	**Condition**	**Disturbance Potential**
1 / MISC	Drywall material / Interior wall areas	NAD	N/A	Non-Friable	Good	High
2 / MISC	Ceiling tile / Interior ceiling area of front main room	NAD	N/A	Non-Friable	Good	High
3 / SURFACING	Ceiling texture / Entrance area of the building in the front main room	NAD	N/A	Friable	Good	High
4 / MISC	White floor tile / Central area of front main room	NAD	N/A	Non-Friable	Good	High
4 / MISC	Yellow mastic with white floor tile / Central area of front main room	NAD	N/A	Non-Friable	Good	High
6 / MISC	Red floor tile (not the black mastic-discussed in Table 1) / Front main room central area	NAD	N/A	Non-Friable	Good	High
7 / MISC	Ceiling tile / Rear main room area	NAD	N/A	Friable	Good	High
8 / MISC	Black roof tar / Roof	NAD	N/A	Non-Friable	Good	High
9 / MISC	Black felt and tar material / Roof (Observed at the rear roof perimeter)	NAD	N/A	Non-Friable	Good	High

Appendix A

Sample Location Map

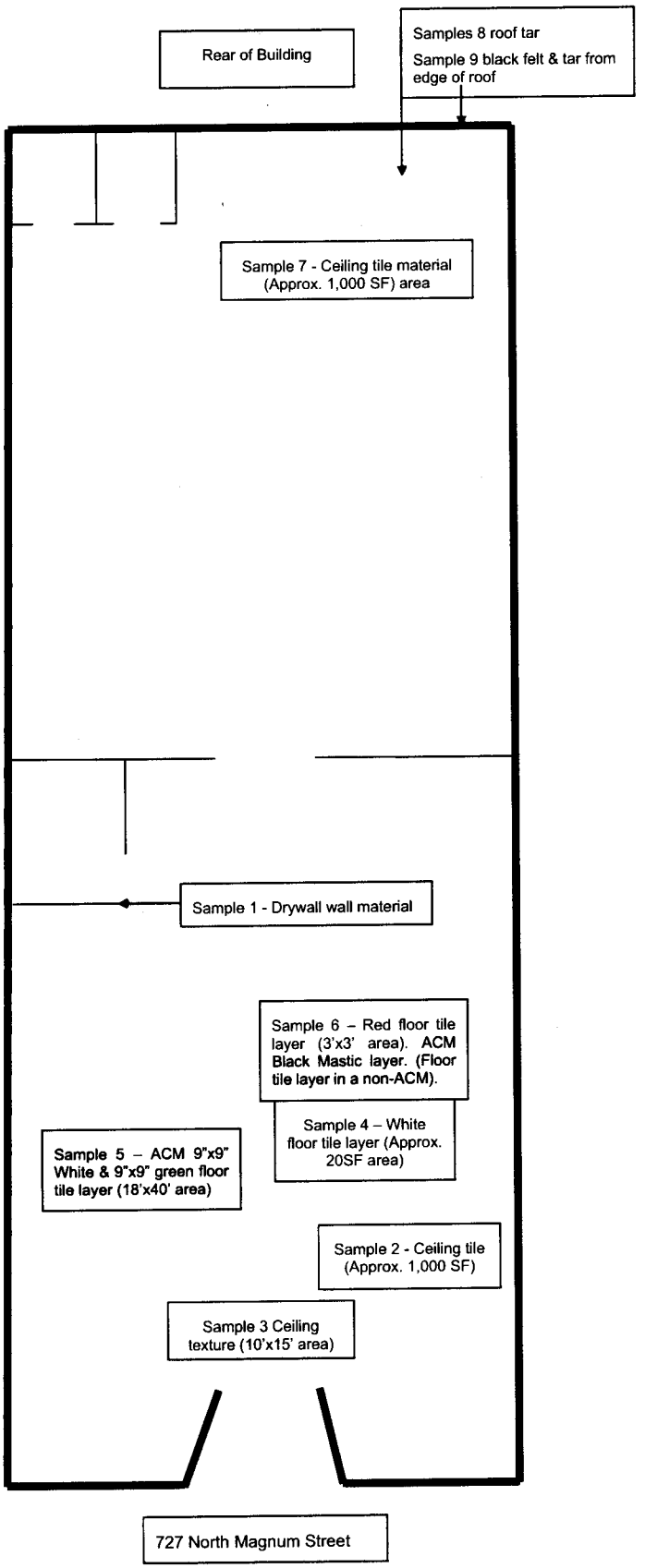
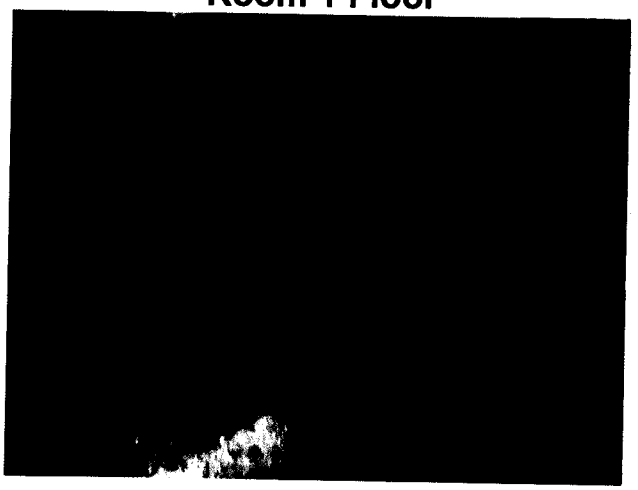


FIGURE 1 SAMPLE LOCATION MAP	**Approximate Scale** **Not to scale**
GTLO	**Site Name:** **Vacant Commercial Building** **727 North Magnum Street** **Durham, North Carolina**

Appendix B

Front of Building

Room 1 Floor



Appendix C

Laboratory Reports
and
Chain of Custody Forms

Please Reply To:

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

FACSIMILE TELECOPY TRANSMISSION

To: Kim Dingledine
Dominion Due Diligence Group
Fax #:
Email: k.dingledine@d3g.biz

From: J. Samuel Baird
AmeriSci Job #: 110111548
Subject: PLM 24 hour Results
Client Project: 2010-1345; 727 North Magnum Street; 727 North Magnum Street, Durham, North Car

Date: Thursday, November 18, 2010
Time: 15:10:06
Comments:

Number of Pages: 5 (including cover sheet)

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AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Dominion Due Diligence Group
Attn: Kim Dingledine
4121 Cox Road
Suite 200
Glen Allen, VA 23060

Date Received 11/18/10 **AmeriSci Job #** 110111548
Date Examined 11/18/10 **P.O. #**
Page 1 **of** 3

RE: 2010-1345; 727 North Magnum Street; 727 North Magnum Street, Durham, North Carolina

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1	110111548-01	*No*	NAD (by CVES) by J. Samuel Baird on 11/18/10
Location: Sheetrock			
Analyst Description: White, Heterogeneous, Non-Fibrous, Sheetrock **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
2	110111548-02	*No*	NAD (by CVES) by J. Samuel Baird on 11/18/10
Location: Ceiling Tile			
Analyst Description: White/Lt. Gray, Heterogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 45 %, Fibrous glass 25 %, Non-fibrous 20 %, Perlite 10 %			
3	110111548-03	*No*	NAD (by CVES) by J. Samuel Baird on 11/18/10
Location: Ceiling Texture 10x15ft			
Analyst Description: White, Heterogeneous, Non-Fibrous, Ceiling Texture **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
4	110111548-04L1	*No*	NAD (by CVES) by J. Samuel Baird on 11/18/10
Location: Floor Tile White 205Q			
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
4	110111548-04.2	*No*	NAD (by CVES) by J. Samuel Baird on 11/18/10
Location: Floor Tile White 205Q			
Analyst Description: Yellow/Brown, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

2010-1345; 727 North Magnum Street; 727 North Magnum Street, Durham, North Carolina

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5	110111548-05L1 **Location:** White & Green 9x9 Tile 40ftx18ft **Analyst Description:** Tan, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %	***Yes***	4 % (by CVES) by J. Samuel Baird on 11/18/10
5	110111548-05L2 **Location:** White & Green 9x9 Tile 40ftx18ft **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97 %	***Yes***	3 % (by CVES) by J. Samuel Baird on 11/18/10
5	110111548-05L3 **Location:** White & Green 9x9 Tile 40ftx18ft **Analyst Description:** Green/White, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 5.0 % **Other Material:** Non-fibrous 95 %	***Yes***	5 % (by CVES) by J. Samuel Baird on 11/18/10
5	110111548-05L4 **Location:** White & Green 9x9 Tile 40ftx18ft **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %	***Yes***	4 % (by CVES) by J. Samuel Baird on 11/18/10
6	110111548-06L1 **Location:** Floor Tile Red 3ftx3ft **Analyst Description:** Red, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100 %	***No***	NAD (by CVES) by J. Samuel Baird on 11/18/10
6	110111548-06L2 **Location:** Floor Tile Red 3ftx3ft **Analyst Description:** Black/Brown, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98 %	***Yes***	2 % (by CVES) by J. Samuel Baird on 11/18/10

See Reporting notes on last page

PLM Bulk Asbestos Report

2010-1345; 727 North Magnum Street; 727 North Magnum Street, Durham, North Carolina

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
7	110111548-07	*No*	NAD (by CVES) by J. Samuel Baird on 11/18/10
Location: Ceiling Tile 20ftx15ft			
Analyst Description: White/Lt. Gray, Heterogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 45 %, Fibrous glass 25 %, Non-fibrous 15 %, Perlite 15 %			
8	110111548-08	*No*	NAD (by CVES) by J. Samuel Baird on 11/18/10
Location: Roof Tar			
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 60 %, Non-fibrous 40 %			
9	110111548-09	*No*	NAD (by CVES) by J. Samuel Baird on 11/18/10
Location: Felt and Tar From Edge			
Analyst Description: Black, Heterogeneous, Fibrous, Felt/Tar Paper			
Asbestos Types:			
Other Material: Cellulose 85 %, Non-fibrous 15 %			

Reporting Notes:
Analyzed by: J. Samuel Baird _____ Date 11/18/10
*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples (198.6 for NOB samples)(NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.
Reviewed By:_____

Magnum 1924 17 SQ

ASBESTOS-CONTAINING MATERIALS SURVEY

SITE: 727 North Magnum Street
ADDRESS: 727 North Magnum Street – Durham, North Carolina
DATE:
CLIENT:

☒ **PLEASE ALLOW FOR POSITIVE STOP METHODOLOGY**

PERSONNEL: 110111548
PROJECT #: 2010-1345
LABORATORY: AmeriSci
TAT: 24-hour
TYPE OF ANALYSIS: PLM

SAMPLE #	MATERIAL DESCRIPTION	LOCATION	QUANTITY/ FRIABILITY
1	SheetRock [redacted] - Compound 1000 SQ		
2	Celling tile		
3	Celling texture 10 x 15 Ft		
4	Floor tile white 20 SQ		
5	White & Green 4x9 tile 40 Ft x 18 Ft		
6	Floor tile Red 3 Ft 3 Ft		
7	Celling tile 20 Ft 15 Ft		
8	Roof tar		
9	Felt and tar from Edge		

RECEIVED
NOV 18 2010
By AW

SUBMITTED BY: Ryan Burnett **DATE SUBMITTED:** _____ **SIGNATURE:** [signature]
RECEIVED BY: _____ **DATE RECEIVED:** _____ **SIGNATURE:** _____

DOMINION DUE DILIGENCE GROUP

4120 Cox Road ♦ GLEN ALLEN ♦ VIRGINIA 23060 ♦ PHONE: (804) 358-2020 ♦ FAX: (804) 358-3003

Appendix D

Certifications and Accreditations

North Carolina Department of Health and Human Services
Division of Public Health · Epidemiology Section
Occupational and Environmental Epidemiology Branch
1912 Mail Service Center · Raleigh, North Carolina 27699-1912
Tel 919-707-5950 · Fax 919 [illegible]

Beverly Eaves Perdue, Governor
Lanier M. Cansler, Secretary

Jeffrey P. Engel, M.D.
State Health Director

September 13, 2010

Ryan A Burnett
5320 Beritstrasse Ct
Charlotte, NC 28277

Dear Mr. Burnett:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 12661, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on JUNE 30, 2011. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to June 30, 2011. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

Marita E Cheek
Accreditation/Certification Secretary
Health Hazards Control Unit

Ryan A Burnett
5320 Beritstrasse Ct
Charlotte, NC 28277

[illegible]

North Carolina
Asbestos Accreditation

EXPIRATION			
06-30-2011			
[illegible]	M	5'11"	[illegible]
			EXP
INSPECTOR		12661	[illegible]

North Carolina Public Health
Working for a Healthier and Safer North Carolina
Everywhere Everyday Everybody

Location: 5595 Six Forks Road, 2nd Floor, Room D-1 · Raleigh, N.C. 27609

North Carolina Department of Health and Human Services
Division of Public Health · Epidemiology Section
Occupational and Environmental Epidemiology Branch
1912 Mail Service Center · Raleigh, North Carolina 27699-1912
Tel 919-707-5950 · Fax 919-870-4808

Beverly Eaves Perdue, Governor
Lanier M. Cansler, Secretary

May 19, 2010

North Carolina
Asbestos Accreditation

EXPIRATION
05-31-2011
02-24-1968 M 5'9" 182
INSPECTOR 11063 05-11

Christopher Burnett
4049 Bamborough Dr
Fort Mill, SC 29715

88759

Christopher Burnett
4049 Bamborough Dr
Fort Mill, SC 29715

Dear Mr. Burnett:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 11063, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on MAY 31, 2011. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to May 31, 2011. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

Marita E Cheek
Accreditation/Certification Secretary
Health Hazards Control Unit

Enclosure

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101904-0

AmeriSci Richmond

Midlothian, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2010-07-01 through 2011-06-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

APPENDIX R

Lead-Based Paint Inspection Report

Lead Paint Inspection Report

of

727 Mangum Street
Durham, NC

Project No. 2010-1345

Prepared for:

Kim Dingledine
Dominion Due Diligence Group
4120 Cox Road
Glen Allen, VA 23060

November 23, 2010

Prepared by:

Get The Lead Out, LLC
2121 Commonwealth Avenue, Suite 202
Charlotte, North Carolina 28205
704-376-3594

CERTIFICATION AND REVIEW PAGE

Lead Paint Inspection of
727 Mangum Street in Durham, NC

I hereby certify that the inspections described herein were completed under my direct personal charge. Get The Lead Out, LLC cannot warrant that the surveyed property does not contain lead in locations other than those surveyed and identified in this report. This inspection is based solely on the spaces accessed, meetings with the site representatives and information provided by the property management company representatives.

Peter M. Hubicki
Get The Lead Out, LLC

Date: November 23, 2010

DISCLAIMER AND DISCLOSURE STATEMENTS

Disclaimer

This report summarizes Get the Lead Out's evaluation of the subject property for the presence of lead-based paint. Our findings are based upon our observations at the property and sampling performed at the time of the inspection activities; conditions at the property may change due to deterioration or maintenance, and Get the Lead Out is not responsible for such changes. Additional lead-based paints may exist in other portions of the property, but were undetected due to inaccessibility or due to an imperceptible change in paints. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation. The observations, results and conclusions contained in this report are time dependent and are subject to changing site conditions and revisions to federal, state and local regulations. Ongoing monitoring by the owner is usually necessary. Except for our evaluation of the subject property for the presence of lead-based paint, no other environmental concerns were addressed during this inspection.

Reliance or use of the information or conclusions of this report by a third party (i.e. a party other than the one for whom it was prepared) without explicit authorization shall be at the third party's sole risk. Get the Lead Out makes no warranties or representations, express or implied in this report, to any such third parties.

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1.0 EXECUTIVE SUMMARY

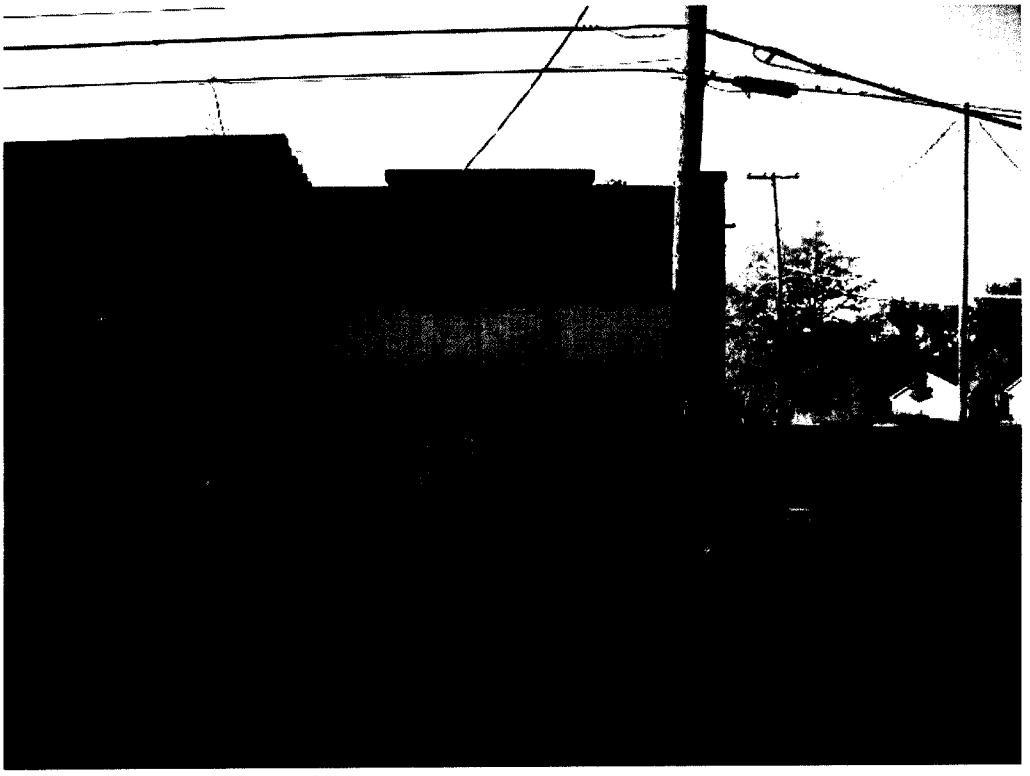
Get The Lead Out, LLC was retained by Dominion Due Diligence Group to perform a lead-based paint inspection at 727 Mangum Street in Durham, North Carolina. Testing took place on November 17 and 19, 2010.

The credentials of the inspectors and of their firm are in Appendix D.

Kevin Joseph and Don Suleski of Get The Lead Out, LLC. tested all accessible painted components. Additionally all Federal, State and City Regulations governing the inspection of lead based paint for the site of the inspection were followed.

Get The Lead Out has determined that there is intact and deteriorated lead paint on the property.

Levels of lead from 0.1 to 9.20 mg/cm2 were found on various components in this building. Under 29CFR 1926.62, OSHA requires worker protection from all levels of lead. This report presents the areas tested and the levels of lead found.



2.0 PROPERTY DESCRIPTION

727 Mangum Street, built prior to 1978, is a brick building that was formerly used as a retail store.

The building is in various states of disrepair since the site has been abandoned for a number of years. The windows are covered over with plywood sheeting and the front entry is secured by a metal gate.

Interior rooms are described below:

Room 1

- Floor was vinyl/asbestos tile.
- Ceiling plaster texture, acoustic tile, upper main ceiling above suspension was acoustic tile (possibly asbestos).
- Entry door A was wood with metal security panels and factory-finished metal bars, wood jamb.
- Door B was wood with wood casing/jamb.
- Side A windows were fixed with wood casings, no stools.
- Walls were brick, wood panel, some drywall.
- Side C stairs were carpeted.

Room 2

- Floor was unpainted concrete.
- Walls A, D were unfinished.
- Walls B, C were brick/wood.
- Ceiling was unpainted drywall.
- No door casing.

Room 3

- Floor was unpainted concrete.
- Ceiling was acoustic panel with some areas texture coated.
- Upper ceiling was unpainted wood with some areas covered by roofing paper.
- Walls were primarily brick/block, with sections of painted wood panel.
- Windows on Side A had no glazing or sashes.
- Door A was a metal security gate with a metal frame.
- Side C Door 1 was missing.

Room 4

- Ceiling was unpainted drywall.
- Floor was unpainted concrete.
- Walls were brick/wood.
- Door C was wood with wood casing/jamb.

Bath 5

- Ceiling was acoustic panel, inaccessible.
- Floor was unpainted concrete.
- Walls were brick/wood panel.
- There was no cabinetry or shelving.

Room 6

- Ceiling was acoustic panel, inaccessible.
- Floor was unpainted concrete.
- Door C was wood with wood casing/jamb.
- Walls were wood.

Bath 7

- Ceiling was acoustic panel, inaccessible.
- Floor was unpainted concrete.
- Walls were brick/block, wood.
- There was no cabinetry or shelving.

3.0 LEAD INSPECTION

This lead-based paint inspection is an interior and exterior investigation to identify all lead-based paint on a surface-by-surface basis. A lead-based paint inspection conforming to EPA guidelines, testing all accessible painted surfaces was performed at the site. Testing took place on November 17 and 19, 2010.

Drawings have been provided in Appendix B that show the locations of lead paint with lead content in excess of 1.0 mg/cm^2.

Testing was performed by Kevin Joseph and Don Suleski of Get The Lead Out, LLC, North Carolina licensed lead inspectors, using NITON XLp Lead Analyzers. Their credentials are provided in Appendix D: Inspector Credentials. The XRF analyzer is designed to measure the lead content of surface coatings on a variety of building surfaces, substrates, and components. The measurement is rapid and nondestructive and, according to the manufacturer, is capable of detecting lead concentrations that occur within numerous layers of various surface coatings.

Please refer to the Appendix A: All XRF Test Results for the detailed analytical testing results for each distinct area inspected. The report provides complete testing data for each location tested.

4.0 XRF LEAD PAINT TEST RESULTS

Lead-based paint with high positive readings in deteriorated condition was found on exterior concrete and brick walls on sides B and D; in Room 1 on the corner trim on side B and in the ceiling.

Lead-based paint with high positive readings in intact condition was found on the exterior door casing and jamb on side C and the window casing on side D. It was found on the interior in Room 1 on the door jamb on side A, and the stair stringers; in Room 3, on the window casings and jambs of windows 1 and 2; in Room 4 on Wall C and in Room 6 on the exterior door on side C.

Some of the remaining XRF test locations exhibited lead-in-paint levels below the level that EPA identifies as lead-based paint, namely 1.0 mg/cm^2. Should these or any lead containing components or surfaces be disturbed in any manner that generates dust, care should be taken to limit its spread.

In the table of XRF values, all values showing lead content greater than 0.10mg/cm^2 have been highlighted in red.

Please refer to the Appendix A: All XRF Test Results for the detailed analytical testing results for each distinct area inspected.

5.0 XRF TESTING PROCEDURE

The Niton XLp is a hand-held, portable lead detector, designed to make fast, accurate non-destructive measurements of lead concentration in lead-based paint. The XLp displays lead levels, indicates precision of measurement and stores up to 3000 readings and spectra.

The accuracy and precision of the data is a function not only of the instrument, but also of how well the operator is trained. Get the Lead Out, LLC has developed a standardized test procedure to be followed by technicians as they make measurements.

Procedure for XLp

1. Turn on the XLp.
2. Press Clear/Enter to begin self-calibration.
3. When the XLp emits a tone, calibration is complete. Press Clear/Enter.
4. Place the NITON XLp on the 1.0 mg/cm² lead standard and test for accuracy. Repeat three times.
5. Begin the test by flicking the light pen across the template bar code for the structure type, location and composition for the surface to be tested.
6. Place the XLp firmly on the painted surface, push in the shutter release, and firmly press the XLp flat against the surface.
7. The XLp's time tones will decide when the test has reached the desired level of accuracy. For readings of approximately 1.0 mg/cm², a 20 source second reading is advisable. For lead-free areas or high lead areas, a reading of 2-4 source seconds is needed.
8. Lift the XLp from the surface to end the test.
9. To take additional readings, simply repeat steps 7 through 10.
10. At the conclusion of the testing at the site, three additional calibration checks are made. Or, alternatively, calibration checks are made every four hours during continuous testing.

The first step is to conduct an inventory of the painted components in interior rooms, of the exterior walls and surfaces. An area should be chosen at the sample location for paint testing. A diagram should be made of the exterior of the building, the floor plan and the individual rooms. Each area should be numbered so that sample identification with the light pen is consistent and the location of each sample taken can be found on the diagram.

Perimeter walls are identified as A, B, C and D. Each room equivalent was orientated so that the wall that the "A Wall" corresponds directly with the main entrance wall. Each room equivalent's side identification follows the scheme for the whole area. A site sketch is located in Appendix B.

Before beginning XRF testing, sample readings should be taken as described above. If the reading is not within the accuracy of the range of deviation, the instrument is out of

control. For example, if the reading of the 1.0 mg/cm² standard is shown to be 0.9 ± 0.2 mg/cm², it is within the range of standard deviation. If the instrument is out of control, it must be sent back to Niton before any further testing can occur. The shipping, handling and transportation manual must be consulted for instructions.

To minimize the potential adverse effects of frequent substrate changes on the Niton instrument, every effort should be made to test the substrates within each room in order. All painted wood, for example, could be tested first, then plaster, drywall, concrete, brick and metal. Care should be taken when changing from structural component to component, to ensure that the light pen is marking the correct floor, room, wall side, etc. This is necessary to produce an accurate printout of the file of test results.

The Niton should be retested for accuracy each day or after it has been turned off for breaks or lunch. If continuous testing occurs for more than four hours, the instrument should be rechecked.

After completing the specific project or at the end of the day, all data should be downloaded into a computer using the XLp proprietary software. Then a copy should be created for additional safety.

This test procedure was developed using the HUD 1997 procedure for XRF testing instruments.

5.1 TEST EQUIPMENT

The field measurements were taken with a Niton XLp. This is a handheld instrument with sophisticated integrated software that allows the specific identification of sample structure type and location. Containing a Cadmium-109 radioactive isotope as a power source, the XLp has been proven during HUD and Air Force studies to give accurate measurements of the presence and amount of lead-based paint.

Both false positive results and false negative results are minimized when using this equipment. Copies of the Mississippi License and Operator Certificates are located at the end of this report in Appendix D.

5.2 EXPLANATION OF SAMPLE NUMBERING

Referring to the pages of sample data in Appendix A, one can see that the Niton XLp Spectrum Analyzer consecutively numbers the samples.

The results are presented in ascending numerical order, just as they were taken. One can see from the Time column the sequential nature of these values.

The following chart is an explanation of the columns present in the XRF results.

Heading	Explanation
No.	Test number in this file.
Site	Address of the property
Floor	Floor where the test was made.
Room	Type of room, i.e., kitchen, bath, etc., with an identifying room number
Side	The side of the room, building or area is assigned a letter (A, B, C or D) for later identification.
Structure	Wall, door, window, etc.
Feature	Further delineation of the part of the structure tested.
Condition	Condition of paint, intact, poor, etc.
Substrate	Type of substrate, plaster, wood, metal, concrete, etc.
PbC	Concentration of lead-based paint found, measured in mg/cm^2
Depth Index	Thickness of the paint: the higher the number, the thicker the coats of paint.
Date & Time	Date of test and the time of the test

5.3 QUALITY CONTROL

Assurance of accurate and proper field measurements taken with the Niton XLp is accomplished in four ways.

a. The accuracy and precision of the calibration of the instrument is verified routinely. A new calibration is performed every time the instrument is turned on. These "checks" must be within specification in order for the instrument to permit measurements to be taken. In addition, the calibration check is run when the testing is complete, or every four hours.

b. The actual spectrum of energies detected during an analysis is recorded, evaluated and saved in memory by the instrument. This spectrum is actually the fingerprint or X-ray print of each sample. The spectrum reveals numerous items of detail about the sample. Details about the information in each column of the printout are explained in Section 5.2. In addition, the graphs of the actual energy spectra are stored in the data field. This information can be further analyzed if necessary for legal means.

c. All samples are numbered, recorded, location and structural information is entered and checked against the floor plan drawings.

d. An encrypted, sequential list of each and every measurement is recorded and reported.

The combination of all four controls provides empirical, defensible proof that measurements were taken according to plan and indications of whether (or not) the instrument was performing properly.

6.0 RECOMMENDATIONS

The presence of lead in paint means that any contractor performing demolition and/or renovations is required to make provisions for worker protection by complying with Mississippi OSHA regulations, 29 CFR 1926.62 Construction Standard for Lead.

Regulated work activities that may generate airborne lead levels (and may require air testing) include torch burning, abrasive blasting, welding, sawing, and grinding. If any of these activities need to occur on lead-based painted surfaces during demolition or renovation, methods such as HEPA vacuums, wet-stripping, water spray or others should be considered to reduce the potential for lead-dust or fume emissions to surrounding areas and workers.

At the minimum, GTLO recommends that contract demolition workers be told of the presence of lead paint, be given access to Appendices A and B of the OSHA lead standard, and that a negative exposure assessment occur according to OSHA regulations 29 CFR 1926.62.

Demolition waste that contains lead is recommended to have representative testing using TCLP to determine appropriate disposal options, depending on whether the debris is considered hazardous waste.

7.0 APPENDICES

APPENDIX A – ALL XRF TEST RESULTS

727 Mangum Street, Durham, NC
All XRF Readings

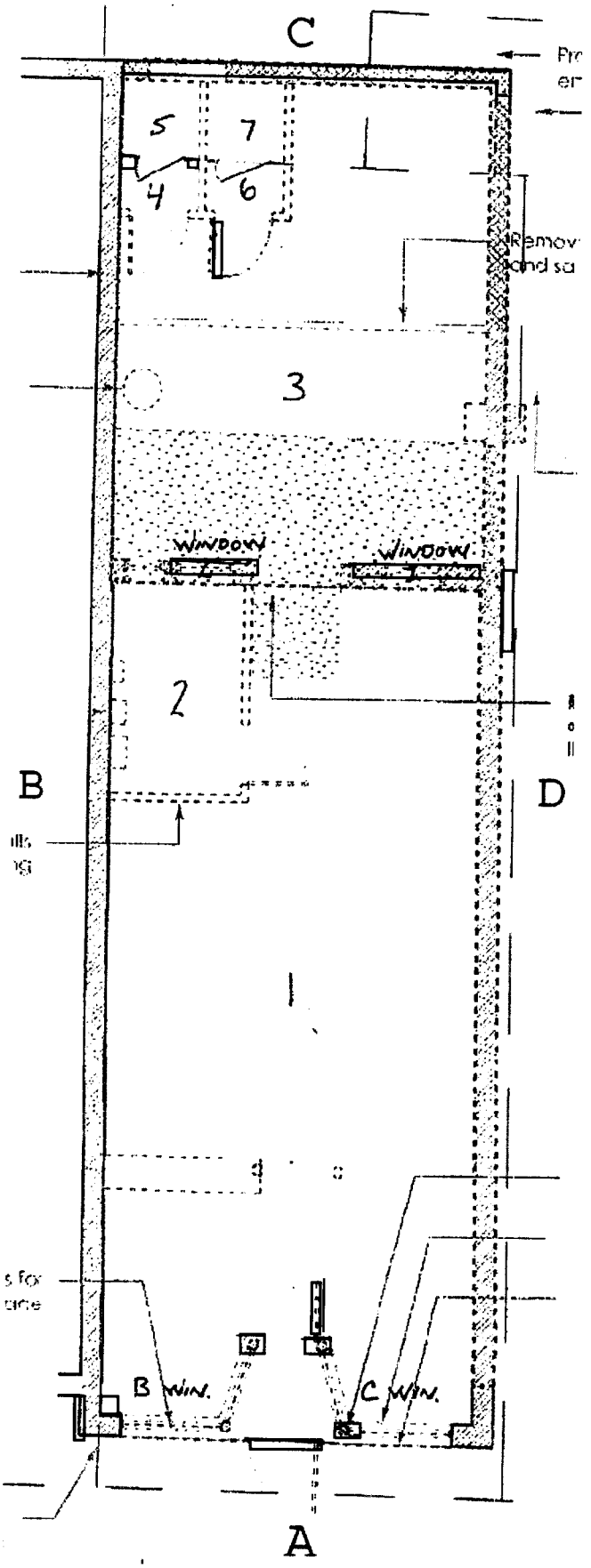
Reading No	Time	Component	Condition	Feature	Side	Substrate	Room	Color	Result	Pb(mg/cm²)
1	11/19/2010 12:59									5.47
2	11/19/2010 13:00		Calibration						Positive	1.00
4	11/19/2010 13:01		Calibration						Positive	1.00
5	11/19/2010 13:02		Calibration						Positive	1.00
6	11/19/2010 13:04	Ceiling	Poor	Ceiling	A	Laminate	Room 1	Tan	Positive	2.80
7	11/19/2010 13:06	Wall, Int.	Intact	Crn Molding	D	Laminate	Room 1	Tan	Negative	0.16
8	11/19/2010 13:07	Wall, Int.	Intact	Wall	A	Wood	Room 1	Blue	Negative	0.00
9	11/19/2010 13:08	Wall, Int.	Intact	Wall	B	Wood	Room 1	Blue	Negative	0.02
10	11/19/2010 13:08	Wall, Int.	Intact	Wall	C	Drywall	Room 1	Blue	Negative	0.03
11	11/19/2010 13:09	Wall, Int.	Intact	Wall	C	Plaster	Room 1	Blue	Negative	0.60
12	11/19/2010 13:09	Wall, Int.	Intact	Wall	D	Plaster	Room 1	Blue	Negative	0.40
13	11/19/2010 13:10	Wall, Int.	Poor	Trim,corner	B	Wood	Room 1	Blue	Positive	7.20
14	11/19/2010 13:16	Wall, Int.	Poor	Wall	D	Plaster	Room 1	Grey	Negative	0.11
15	11/19/2010 13:17	Ceiling	Poor	Ceiling	D	Laminate	Room 1	Grey	Null	0.21
16	11/19/2010 13:17	Ceiling	Poor	Ceiling	D	Laminate	Room 1	Grey	Positive	2.10
17	11/19/2010 13:19	Door, Int.	Intact	Door	A	Wood	Room 1	Blue	Null	1.00
18	11/19/2010 13:19	Door, Int.	Intact	Door	A	Wood	Room 1	Blue	Negative	0.00
19	11/19/2010 13:20	Door, Int.	Intact	Jamb Rt	A	Wood	Room 1	White	Positive	7.30
20	11/19/2010 13:21	Door, Int.	Intact	Casing, Lft	A	Wood	Room 1	Blue	Negative	0.01
21	11/19/2010 13:23	Door, Int.	Intact	Casing, Lft	B	Wood	Room 1	Blue	Negative	0.00
22	11/19/2010 13:23	Door, Int.	Intact	Jamb Rt	B	Wood	Room 1	Blue	Negative	0.00
23	11/19/2010 13:24	Stairs	Intact	Hand Rail	C	Wood	Room 1	Blue	Negative	0.01
24	11/19/2010 13:24	Stairs	Intact	Stringer	C	Wood	Room 1	Blue	Positive	1.20
25	11/19/2010 13:25	Stairs	Intact	Tread	C	Wood	Room 1	Blue	Negative	0.03
26	11/19/2010 13:27	Wall, Int.	Poor	Wall	C	Plaster	Room 2	Grey	Negative	0.50
27	11/19/2010 13:27	Wall, Int.	Poor	Wall	B	Plaster	Room 2	Grey	Negative	0.50
28	11/19/2010 13:28	Door, Int.	Intact	Jamb Rt	D	Wood	Room 2	Varnish	Negative	0.01
29	11/19/2010 13:29	Door, Int.	Intact	Jamb Rt	C	Wood	Room 1	Blue	Negative	0.00
30	11/19/2010 13:29	Door, Int.	Intact	Casing, Lft	C	Wood	Room 1	Blue	Negative	0.04
31	11/19/2010 13:30	Door, Int.	Intact	Casing, Lft	C	Wood	Room 1	Blue	Negative	0.10
32	11/19/2010 13:30	Door, Int.	Intact	Jamb Rt	C	Wood	Room 1	Blue	Negative	0.00
33	11/19/2010 13:32	Ceiling	Intact	Ceiling	A	Ceiling Tile	Room 3	White	Negative	0.00
34	11/19/2010 13:33	Ceiling	Intact	Ceiling beam	A	Wood	Room 3	White	Negative	0.03
35	11/19/2010 13:34	Wall, Int.	Intact	Wall	A	Brick	Room 3	Blue	Negative	0.17
36	11/19/2010 13:34	Wall, Int.	Intact	Wall	B	Brick	Room 3	Blue	Negative	0.05
37	11/19/2010 13:34	Wall, Int.	Intact	Wall	C	Wood	Room 3	Blue	Negative	0.11
38	11/19/2010 13:35	Wall, Int.	Intact	Wall	D	Block	Room 3	Blue	Negative	0.11
39	11/19/2010 13:37	Window	Intact	Jamb Rt	A	Wood	Room 3	Blue	Positive	4.50
40	11/19/2010 13:37	Window	Intact	Casing, Lft	A	Wood	Room 3	Blue	Positive	4.00
41	11/19/2010 13:38	Window 2	Intact	Casing, Lft	A	Wood	Room 3	Off White	Positive	3.20
42	11/19/2010 13:38	Window 2	Intact	Jamb Rt	A	Wood	Room 3	Off White	Positive	3.90
43	11/19/2010 13:40	Door, Int.	Intact	Jamb Rt	A	Wood	Room 4	Blue	Negative	0.10
44	11/19/2010 13:40	Door, Int.	Intact	Casing, Lft	A	Wood	Room 4	Blue	Negative	0.11
45	11/19/2010 13:41	Door, Int.	Intact	Door	A	Wood	Room 4	White	Negative	0.04
46	11/19/2010 13:41	Door, Int.	Intact	Casing, Lft	A	Wood	Room 4	White	Negative	0.20
47	11/19/2010 13:41	Door, Int.	Intact	Casing, Lft	C	Wood	Room 4	White	Negative	0.17
48	11/19/2010 13:41	Door, Int.	Intact	Jamb Rt	C	Wood	Room 4	White	Negative	0.04
49	11/19/2010 13:42	Door, Int.	Intact	Door	C	Wood	Room 4	White	Negative	0.05
50	11/19/2010 13:42	Wall, Int.	Intact	Wall	A	Wood	Room 4	White	Negative	0.13
51	11/19/2010 13:42	Wall, Int.	Intact	Wall	B	Brick	Room 4	White	Negative	0.03
52	11/19/2010 13:43	Wall, Int.	Intact	Wall	C	Wood	Room 4	White	Positive	1.10
53	11/19/2010 13:43	Wall, Int.	Intact	Wall	D	Wood	Room 4	White	Negative	0.14
54	11/19/2010 13:45	Wall, Int.	Intact	Wall	A	Wood	Room 5	White	Negative	0.90
55	11/19/2010 13:45	Wall, Int.	Intact	Wall	B	Brick	Room 5	White	Negative	0.06
56	11/19/2010 13:45	Wall, Int.	Intact	Wall	C	Block	Room 5	White	Negative	0.10
57	11/19/2010 13:45	Wall, Int.	Intact	Wall	D	Wood	Room 5	White	Negative	0.17
58	11/19/2010 13:46	Door, Int.	Intact	Casing, Lft	A	Wood	Room 5	White	Negative	0.07
59	11/19/2010 13:46	Door, Int.	Intact	Jamb Rt	A	Wood	Room 5	White	Negative	0.07
60	11/19/2010 13:46	Door, Int.	Intact	Door	A	Wood	Room 5	White	Negative	0.05
61	11/19/2010 13:47	Wall, Int.	Intact	Wall pipe	A	Metal	Room 5	White	Negative	0.03
62	11/19/2010 13:48	Wall, Int.	Intact	Wall pipe	A	Metal	Bath 5	White	Negative	0.08
63	11/19/2010 13:49	Wall, Int.	Intact	Wall	A	Wood	Room 6	White	Negative	0.09
64	11/19/2010 13:49	Wall, Int.	Intact	Wall	B	Wood	Room 6	White	Negative	0.12
65	11/19/2010 13:49	Wall, Int.	Intact	Wall	C	Wood	Room 6	White	Negative	0.07

727 Mangum Street, Durham, NC
All XRF Readings

Reading No	Time	Component	Condition	Feature	Side	Substrate	Room	Color	Results	PbC (mg/cm²)
66	11/19/2010 13:50	Wall, Int.	Intact	Wall	D	Wood	Room 6	White	Negative	0.03
67	11/19/2010 13:50	Door, Ext.	Intact	Door	A	Wood	Room 6	White	Negative	0.12
68	11/19/2010 13:50	Door, Ext.	Intact	Jamb Rt	A	Wood	Room 6	White	Negative	0.10
69	11/19/2010 13:50	Door, Ext.	Intact	Casing, Lft	A	Wood	Room 6	White	Negative	0.04
70	11/19/2010 13:51	Door, Ext.	Intact	Casing, Lft	C	Wood	Room 6	White	Negative	0.07
71	11/19/2010 13:51	Door, Ext.	Intact	Door	C	Wood	Room 6	White	Positive	1.30
72	11/19/2010 13:51	Door, Ext.	Intact	Jamb Rt	C	Wood	Room 6	White	Negative	0.11
73	11/19/2010 13:52	Door, Ext.	Intact	Jamb Rt	A	Wood	Room 7	White	Negative	0.06
74	11/19/2010 13:52	Door, Ext.	Intact	Casing, Lft	A	Wood	Room 7	White	Negative	0.30
75	11/19/2010 13:53	Wall, Int.	Intact	Wall	A	Wood	Room 7	White	Negative	0.20
76	11/19/2010 13:53	Wall, Int.	Intact	Wall	B	Wood	Room 7	White	Negative	0.22
77	11/19/2010 13:53	Wall, Int.	Intact	Wall	D	Wood	Room 7	White	Negative	0.15
78	11/19/2010 13:54	Wall, Int.	Intact	Wall	C	Block	Room 7	Grey	Negative	0.00
79	11/19/2010 13:55	Wall, Int.	Intact	Wall	B	Wood	Room 3	Blue	Negative	0.07
80	11/19/2010 13:55	Wall, Int.	Intact	Wall	C	Wood	Room 3	Blue	Negative	0.04
81	11/19/2010 13:56	Wall, Int.	Intact	Wall beam	A	Wood	Room 3	Blue	Negative	0.05
82	11/19/2010 13:58	Wall, Int.	Intact	Door gate	A	Metal	Room 3	Black	Negative	0.00
83	11/19/2010 14:00	Ceiling	Intact	Ceilin lower	A	Drywall	Room 1	White	Negative	0.00
84	11/19/2010 14:00	Wall, Int.	Intact	Column	A	Wood	Room 1	Blue	Negative	0.00
85	11/19/2010 14:01	Door, Ext.	Intact	Jamb Rt	C	Wood	Exterior	White	Positive	6.80
86	11/19/2010 14:02	Door, Ext.	Intact	Casing, Lft	C	Wood	Exterior	White	Positive	9.20
87	11/19/2010 14:02	Door, Ext.	Intact	Door	C	Wood	Exterior	White	Negative	0.00
88	11/19/2010 14:02	Door, Ext.	Intact	Door	C	Metal	Exterior	Silver	Negative	0.00
89	11/19/2010 14:03	Window	Intact	Casing, Lft	B	Wood	Exterior	White	Negative	0.00
90	11/19/2010 14:03	Window	Intact	Stool	B	Wood	Exterior	White	Negative	0.00
91	11/19/2010 14:03	Window	Intact	Stool	D	Wood	Exterior	White	Negative	0.20
92	11/19/2010 14:04	Window	Intact	Casing, Lft	D	Wood	Exterior	White	Positive	3.80
93	11/19/2010 14:04	Siding, Ext.	Intact	Foundation	A	Brick	Exterior	Silver	Negative	0.03
94	11/19/2010 14:05	Siding, Ext.	Intact	Wall	A	Wood	Exterior	White	Negative	0.01
95	11/19/2010 14:08	Siding, Ext.	Intact	Door gate	A	Metal	Exterior	Silver	Negative	0.00
96	11/19/2010 14:09	Siding, Ext.	Poor	Wall	B	Brick	Exterior	Red	Positive	1.40
97	11/19/2010 14:12	Siding, Ext.	Intact	Wall	C	Block	Exterior	White	Negative	0.00
98	11/19/2010 14:13	Siding, Ext.	Intact	Wall	D	Block	Exterior	White	Negative	0.00
99	11/19/2010 14:13	Siding, Ext.	Intact	Wall	D	Concrete	Exterior	Grey	Negative	0.00
100	11/19/2010 14:14	Siding, Ext.	Poor	Wall	D	Concrete	Exterior	Tan	Positive	2.00
101	11/19/2010 14:14	Siding, Ext.	Poor	Wall	D	Concrete	Exterior	White	Negative	0.00
102	11/19/2010 14:19		Calibration						Positive	1.00
103	11/19/2010 14:19		Calibration						Null	1.00
105	11/19/2010 14:20		Calibration						Positive	1.00
107	11/19/2010 14:21		Calibration						Positive	1.10

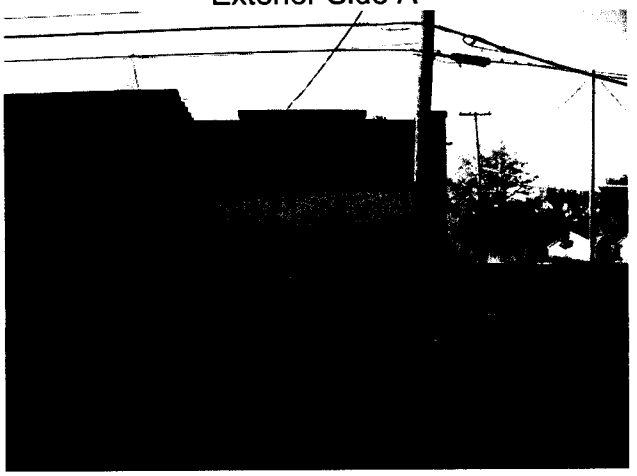
APPENDIX B – DRAWING SHOWING LOCATION OF HIGH POSITIVE LEAD PAINT

Site Plan with Areas of High Positive Lead Paint Red-lined.



APPENDIX C – PHOTOGRAPHS

Exterior Side A



Exterior Side C

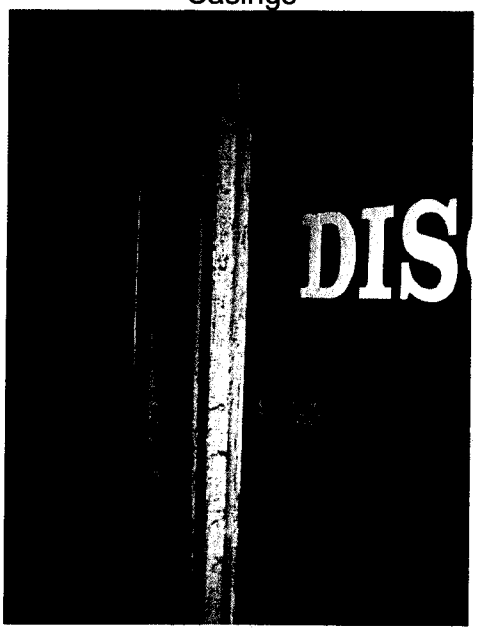
Exterior Side B; Area of Positive Lead Paint

Exterior Side D

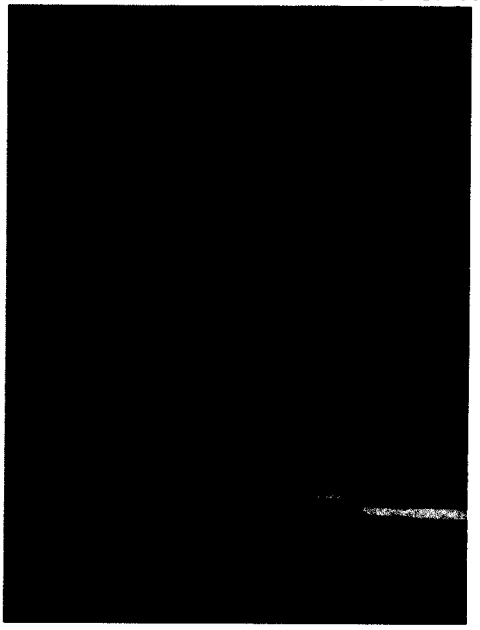
Positive Lead Paint Exterior Side D

Positive Lead Paint Exterior Side A Door Trim

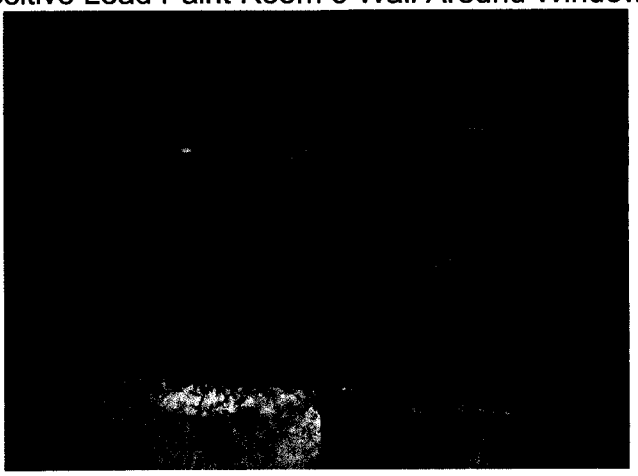
Positive Lead Paint Exterior Side A Window Casings



Positive Lead Paint Room 1 Corner Trim



Positive Lead Paint Room 3 Wall Around Windows



Positive Lead Paint Room 1 Upper Ceiling

APPENDIX D –INSPECTOR CREDENTIALS

North Carolina Department of Health and Human Services
Division of Public Health · Epidemiology Section
Occupational and Environmental Epidemiology Branch
1912 Mail Service Center · Raleigh, North Carolina 27699-1912
Tel 919-707-5950 · Fax 919-870-4808

Beverly Eaves Perdue, Governor
Lanier M. Cansler, Secretary

Jeffrey P. Engel, M.D.
State Health Director

June 21, 2010

Kevin Joseph
2121 Commonwealth Ave
Charlotte, NC 28205

Dear Mr. Joseph:

You have successfully passed the North Carolina Lead Risk Assessor Certification examination. Based on these results, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the examination requirement and are eligible for lead certification as a(n) RISK ASSESSOR. Your assigned Risk Assessor certification number is 120226, which is reflected on your enclosed North Carolina Lead Certification card. The State requires that all persons conducting regulated lead-based paint activities be certified and have their identification card on-site.

A "Lead-Based Paint Activity Summary" shall be submitted to the HHCU by the certified inspector or risk assessor within 45 days of each inspection, risk assessment, or lead hazard screen conducted. The information shall be submitted on a form provided or approved by the Program, per 10A NCAC 41C .0807(b), Lead-Based Paint Hazard Management Program Rules.

Accredited refresher training must be completed at least every 24 months from the date of the last accredited training course **AND** within twelve months prior to applying for certification. The HHCU strongly recommends that individuals note the date of certification expiration and ensure all refresher training meets the above requirements.

Your North Carolina Risk Assessor certification will expire on JUNE 30, 2011. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Risk Assessor after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to June 30, 2011. If you should perform lead-based paint activities as a(n) Risk Assessor without a valid North Carolina certification, you will be in violation of State regulations and may be cited for noncompliance.

If you have any questions, please contact our office at (919) 707-5954.

Sincerely,

Marita E Cheek
Accreditation/Certification Secretary
Health Hazards Control Unit

NORTH CAROLINA
LEAD CERTIFICATION

Kevin Joseph
2121 Commonwealth Ave
Charlotte, NC 28205

DOB	SEX	HT	WT
08-19-1952	M	6'0"	210

DISCIPLINE	#	LAST COURSE	EXPIRATION
RISK ASSESSOR	120226	INS 11-23-2009 RIS 05-07-2010	06-30-2011

Certificate of Achievement

Kevin Joseph

Get The Lead Out

Has successfully completed the
Thermo Fisher Scientific NITON Analyzers Manufacturer's Training Course
and is now certified in operation, monitoring and machine maintenance
of the **NITON XRF Spectrum Analyzer.**
Certificate issued by Thermo Fisher Scientific NITON Analyzers

ThermoFisher
SCIENTIFIC

Dorothy Callihan

Operational Training Coordinator

00v8000000Hu4hZ

Certificate Number

Director, Marketing & Americas Sales

2008 Nov 4 / Charlotte, NC

Date & Site of Course

North Carolina Department of Health and Human Services
Division of Public Health · Epidemiology Section
Occupational and Environmental Epidemiology Branch
1912 Mail Service Center · Raleigh, North Carolina 27699-1912
Tel 919-707-5950 · Fax 919-870-4808

Beverly Eaves Perdue, Governor
Lanier M. Cansler, Secretary

Jeffrey P. Engel, M.D.
State Health Director

August 16, 2010

Donald P Suleski
2121 Commonwealth Ave
Charlotte, NC 28205

Dear Mr. Suleski:

You have successfully passed the North Carolina Lead Inspector Certification examination. Based on these results, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the examination requirement and are eligible for lead certification as a(n) INSPECTOR. Your assigned Inspector certification number is 110214, which is reflected on your enclosed North Carolina Lead Certification card. The State requires that all persons conducting regulated lead-based paint activities be certified and have their identification card on-site.

A "Lead-Based Paint Activity Summary" shall be submitted to the HHCU by the certified inspector or risk assessor within 45 days of each inspection, risk assessment, or lead hazard screen conducted. The information shall be submitted on a form provided or approved by the Program, per 10A NCAC 41C .0807(b), Lead-Based Paint Hazard Management Program Rules.

Accredited refresher training must be completed at least every 24 months from the date of the last accredited training course **AND** within twelve months prior to applying for certification. The HHCU strongly recommends that individuals note the date of certification expiration and ensure all refresher training meets the above requirements.

Your North Carolina Inspector certification will expire on AUGUST 31, 2011. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to August 31, 2011. If you should perform lead-based paint activities as a(n) Inspector without a valid North Carolina certification, you will be in violation of State regulations and may be cited for noncompliance.

If you have any questions, please contact our office at (919) 707-5954.

Sincerely,

Marita E Cheek
Accreditation/Certification Secretary
Health Hazards Control Unit

NORTH CAROLINA
LEAD CERTIFICATION

Donald P Suleski
2121 Commonwealth Ave
Charlotte, NC 28205

DOB	SEX	HT	WT
10-26-1950	M	5'7"	210

DISCIPLINE	#	LAST COURSE	EXPIRATION
INSPECTOR	110214	INS 06-25-2010	08-31-2011

Radiation Safety and Operation of Niton XRF Analyzers

This is to certify that

Donald Suleski

has successfully completed the one day Thermo Fisher Scientific Niton Analyzer Manufacturer's Training Course. The topics of this course include radiation safety, monitoring, device operation, and machine maintenance of the Niton XRF Analyzer.

(CIH's – The ABIH Awards 1 CM point, approval # 08-354)

Course date: 2010 July 22
Location: Norfolk, VA
Certificate Number: 12:440038000000zIseS

Customer Training Certificate

Sophie Ung
Radiation Safety Training Coordinator

James Blute, CHP
Manager of Health and Safety

North Carolina Department of Health and Human Services
Division of Public Health · Epidemiology Section
Occupational and Environmental Epidemiology Branch
1912 Mail Service Center · Raleigh, North Carolina 27699-1912
Tel 919-707-5950 · Fax 919-870-4808

Beverly Eaves Perdue, Governor
Lanier M. Cansler, Secretary

Jeffrey P. Engel, M.D.
State Health Director

October 19, 2009

Peter Hubicki
Get The Lead Out
2121 Commonwealth Ave Ste 202
Charlotte NC 28205-5100

Dear Mr. Hubicki:

Based upon the review of your Lead Firm Certification application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for Lead Firm Certification. Your assigned certification number is FPB-0002, which is reflected on your enclosed North Carolina Lead Firm Certification certificate.

Your North Carolina Firm Certification will expire on October 31, 2010. It is not the policy of the HHCU to issue renewal notices. If you wish to remain a certified firm after this expiration date, you must submit a completed application to this office prior to October 31, 2010. If you should continue to perform lead-based paint activities without a valid North Carolina firm certification, you will be in violation of State regulations and may be cited for noncompliance.

If you have any questions, please contact the HHCU at (919) 707-5950.

Sincerely,

Rebecca L Owen
Permit/Notification Secretary
Health Hazards Control Unit

Enclosure

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*
Tested Model: *XLp 300*
Source: ^{109}Cd
Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.
XLp 300A, XLp 301A, XLp 302A and XLp 303A.
XLi 700A, XLi 701A, XLi 702A and XLi 703A.
XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25th Percentile	Median	75th Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.*

North Carolina
Division of Environmental Health

RADIOACTIVE MATERIALS BRANCH
RADIATION PROTECTION SECTION
N. C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

RADIOACTIVE MATERIALS LICENSE

Pursuant to North Carolina Regulations for Protection Against Radiation and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer, and import radioactive materials listed below; and use such radioactive material for the purpose(s) and at the place(s) designated below. This License is subject to all applicable rules and regulations of the North Carolina Department of Environment and Natural Resources now and hereafter in effect and to any conditions specified below.

1.	**Licensee Name:**	Get The Lead Out, LLC	3. **License No:**	060-0989-1	**License Type** 0310
2a.	**Mailing Address:**	2121 Commonwealth Avenue, Suite 202 Charlotte, NC 28205-5100	4. **Expiration Date:**	December 31, 2014	
b.	**Physical Address:**	2121 Commonwealth Avenue, Suite 202 Charlotte, NC 28205-5100	X **New License Renewal**	**Routine Administrative**	**Corrected Copy Termination**
c.	**Radiation Safety Officer:**	Peter M. Hubicki	5.a. **Amendment No.:**	10	
			b. **Issuance Date:**	October 27, 2009	

6. **Radioactive Material (element and mass no.)**	7. **Chemical and/or Physical Form**	8. **Maximum Amount of Radioactivity and/or Quantity of Radioactive Material which Licensee May Possess at Any One Time**
A. Cadmium 109	A. Sealed Source	A. No single source to exceed 40 millicuries.
B. Cadmium 109	B. Sealed Source	B. No single source to exceed 50 millicuries
C. Americium 241:Beryllium	C. Sealed Source	B. No single source to exceed 5.0 microcuries.

9. **Authorized Use:**

A. To be used in a Niton XL Model 309 analyzer to test for lead content in paint.

B. & C. To be used in a Niton Model XLp 300 analyzer to test for lead content in paint.

CONDITIONS

10. A. The authorized place of receipt and storage of radioactive material is the licensee's address stated in item 2b. above.

B. Radioactive materials may be used at temporary jobsites of the licensee throughout the State of North Carolina in areas not under exclusive Federal jurisdiction (Federal installations such as military bases, V.A. Hospitals, etc.). Authorization for the use of radioactive materials at temporary jobsites under exclusive Federal Jurisdiction shall be obtained either by (1) filing a NRC Form 241 [10 CFR 150.20(b)], or (2) applying for reciprocity, or (3) applying for a specific license from the NRC if the length of the job is to exceed six (6) months.

C. This condition does not prohibit the use of radioactive materials in other states; however, before radioactive materials can be used at a temporary jobsite in another state, authorization must be obtained from the State, if it is an Agreement state, or from the Nuclear Regulatory Commission for any non-Agreement State, either by filing for reciprocity or applying for a specific license.

11. The licensee shall comply with the provisions of 15A NCAC 11 .1600 "Standards for Protection Against Radiation," and 15A NCAC 11 .1000 "Notices, Instructions, Reports and Inspections." (The North Carolina Regulations for Protection Against Radiation are contained in 15A NCAC 11.)

12. A. Licensed material shall only be used by Peter M. Hubicki, Kevin Joseph, or individuals who (1) have successfully completed a manufacturers training program for gauge users, (2) have been instructed in the licensee's routine operating and emergency procedures, and (3) have been designated in writing as having completed these requirements by the Radiation Safety Officer.

North Carolina
Division of Environmental Health

RADIOACTIVE MATERIALS BRANCH
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RADIOACTIVE MATERIALS LICENSE

CONDITIONS (continued):

12. B. Records of these designations shall be maintained for three (3) years after the company no longer employs the individual.

    C. The licensee shall establish a method of identification and documentation of training for the persons authorized in Condition A above. This shall be made available for review by the agency at the time of either a field or home office inspection.

    D. The Radiation Safety Officer for the activities authorized under this license shall be Peter M. Hubicki.

13. A. Each device containing a sealed source authorized under this license shall be tested for leakage and/or contamination at the interval prescribed in the respective Registry of Radioactive Sealed Sources and Devices sheet. In the absence of a certificate from the transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested.

    B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the agency.

    C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with agency regulations. A report shall be filed within five (5) days of the test with the Radioactive Materials Branch, Radiation Protection Section, Department of Environment and Natural Resources, 1645 Mail Service Center, Raleigh, NC 27699-1645, describing the equipment involved, the test results, and the corrective action taken.

    D. Tests for leakage and /or contamination shall be performed by persons specifically authorized by the agency to perform such services.

14. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provision of Section 71.5, Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material For Transport."

15. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.

16. Gauges that are equipped with a sliding block which require servicing shall be cleaned and lubricated only by personnel who are authorized in the license to use the gauge and who have received training on how to remove, clean and lubricate the sliding block properly. The sliding block may be removed provided:

    A. Personnel removing the sliding block wear appropriate personnel monitoring equipment; and

    B. Personnel removing the sliding block stay on the opposite side of the gauge from the sliding block and use a mirror to view the removal and reinstallation of the sliding block in order to minimize exposure.

17. The radioactive source rod containing radioactive material which requires servicing may be removed from the gauge for cleaning and lubrication only in accordance with procedures contained in the gauge manual and only by persons who are authorized in the license to use the gauge and who have received training on how to remove, clean, and lubricate the source rod properly. The source rod may be removed provided:

    A. Personnel removing the source rod wear appropriate personnel monitoring equipment;

    B. The source rod is removed while in an appropriate area away from other people;

Division of Environmental Health

RADIOACTIVE MATERIALS BRANCH
RADIATION PROTECTION SECTION
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RADIOACTIVE MATERIALS LICENSE

CONDITIONS (continued):

17. C. After the source rod is cleaned and lubricated, a calibration check is made to confirm the source rod is in the proper location and instrument readings are normal;

    D. Records show the location, date, and name of the person performing the cleaning, lubrication, and calibration check; and

    E. The above records are maintained for a period of three (3) years or until the agency authorizes their disposal.

18. The licensee shall keep records for each device authorized in this license showing which authorized user has the device, the time and date the device was removed from storage, job where device was used and the time and date the device was placed back into storage. Records of use shall be kept for two (2) years for inspection by the agency or until they have been reviewed by the agency and if the records are determined to be satisfactory, then they may be disposed of.

19. The licensee shall conduct a physical inventory of all sealed sources received and possessed under this license at intervals not to exceed six (6) months. Records of the inventories shall be maintained for inspection by the agency and shall include the quantities and kinds of radioactive material, location of sources and the date of the inventory.

20. In addition to the possession limits in Item 8 above, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 15A NCAC 11 .0353 for establishing decommissioning financial assurance.

21. The licensee shall annually review its Radiation Protection Program for content and implementation [Reference 15A NCAC 11 .1603(c)]. Documentation of the Radiation Protection Program reviews shall be retained for inspection by the agency [Reference: 15A NCAC 11 .1636].

22. The licensee shall institute the provisions of 15A NCAC 11 .1610 when an occupationally exposed woman voluntarily informs her supervisor, in writing, of the pregnancy and the estimated date of conception.

23. The licensee shall ensure that no individual "member of the public" [Reference: 15A NCAC 11 .0104(64)] receives a radiation dose in excess of the limits specified in 15A NCAC 11 .1611(a) while conducting licensed activities.

24. This license may be subject to amendment, revision, modification, suspension, or revocation in accordance with the provisions of 15A NCAC 11 .0344.

25. In addition to the possession limits referenced in Item 8. above, the licensee shall further restrict possession of radionuclides listed in the table below to the quantities noted within the table. Sum of fractions for the radionuclides listed below shall not exceed unity:

Radionuclide	Quantity (curies)	Radionuclide	Quantity (curies)
Am-241	16	Pm-147	10,800
Am-241:Be	16	Pu-238	16
Cf-252	5.4	Pu-239:Be	16
Cm-244	13.5	Ra-226	10.8
Co-60	8.1	Se-75	54
Cs-137	27	Sr-90 (Y-90)	270
Gd-153	270	Tm-170	5,400
Ir-192	21.6	Yb-169	81

26. The licensee shall use a minimum of two independent physical controls that form tangible barriers to secure portable gauges from unauthorized removal, whenever portable gauges are not under the control and constant surveillance of the licensee.

North Carolina
Division of
Environmental Health

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RADIOACTIVE MATERIALS LICENSE

CONDITIONS (continued):

27. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6., 7., and 8. of this license in accordance with statements, representations and procedures and attachments listed below. The *North Carolina Regulations for Protection Against Radiation* shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

    A. Application with attachments dated October 2, 2009, signed by Peter M. Hubicki, RSO.

For: W. Lee Cox, III
Acting Chief, Radiation Protection Section

APPENDIX E -GLOSSARY

COMMON LEAD-BASED PAINT TERMS

Lead-Based Paint: Any paint, varnish, shellac, or other coating that contains lead equal to or greater than 1.0 mg/cm^2 as measured by XRF or laboratory analysis, or 0.5 percent by dry weight (5,000 mg/g, 5,000 ppm, or 5,000 mg/kg) as measured by laboratory analysis.

Lead-Based Paint Hazards: Housing conditions that cause human exposure to unsafe levels of lead from paint. These conditions include deteriorated lead-based paint; friction, impact or chewable painted surfaces; lead-contaminated dust; or lead-contaminated soil.

Physical Terms

Building Component: Any element of a building that may be painted or have dust on its surface, e.g. walls, stair treads, floors, railings, doors, window sills, etc. Building component replacement: See Replacement.

Deteriorated Lead-Based Paint: Any lead-based paint coating on a damaged or deteriorated surface or fixture, or any interior or exterior lead-based paint that is peeling, chipping, blistering, flaking, worn, chalking, alligatoring, cracking, or otherwise becoming separated from the substrate.

Lead Hazard Evaluation

Clearance Examination: Clearance is performed after hazard reduction, rehabilitation or maintenance activities to determine if a unit is safe for occupancy. It involves a visual assessment, analysis of dust and/or soil samples, and preparation of report. A certified risk assessor, paint inspector, or clearance technician (independent from entity/individual conducting paint stabilization or hazard reduction) conducts clearance.

Paint Testing: Testing of specific surfaces, by XRF (x-ray fluorescence) or lab analysis, to determine the lead content of these surfaces, performed by a certified lead-based paint inspector or certified risk assessor.

Risk Assessment: A comprehensive evaluation for lead-based paint hazards that includes paint testing, dust and soil sampling, and a visual evaluation. The risk assessment report identifies lead hazards and appropriate lead hazard reduction methods. A certified risk assessor must conduct the assessment.

Visual Assessment: A visual evaluation of interior and exterior painted surfaces to identify specific conditions that contribute to lead-based paint hazards. A

certified risk assessor or Housing Quality Standards (HQS) inspector trained in visual assessment performs the assessment.

Lead Hazard Reduction

Abatement: A measure or set of measures designed to permanently (i.e. 20 or more years) eliminate lead-based paint hazards or lead-based paint. Abatement strategies include the removal of lead-based paint, enclosure, encapsulation, replacement of building components coated with lead-based paint, removal of lead-contaminated dust, and removal of lead-contaminated soil or overlaying of soil with a durable covering such as asphalt (grass and sod are considered interim control measures). All of these strategies require preparation; cleanup; waste disposal; post abatement clearance testing; record keeping; and, if applicable, monitoring. See also Complete abatement and Interim controls.

Complete abatement: Abatement of all lead-based paint inside and outside a property or building and reduction of any lead-contaminated dust or soil hazards. All of these strategies require preparation; cleanup; waste disposal; post-abatement clearance testing; recordkeeping; and, if applicable, reevaluation and on-going monitoring. See also Abatement.

Cleaning: The process of using a HEPA vacuum and wet cleaning agents to remove leaded dust; the process includes the removal of bulk debris from the work area. OSHA prohibits the use of compressed air to clean lead-contaminated dust from a surface.

Encapsulation: Any covering or coating that acts as a barrier between lead-based paint and the environment, the durability of which relies on adhesion and the integrity of the existing bonds between multiple layers of paint and between the paint and the substrate. See also Enclosure.

Enclosure: The use of rigid, durable construction materials that are mechanically fastened to the substrate to act as a barrier between the lead-based paint and the environment.

Lead-based Paint Hazard Control: Activities to control and eliminate lead-based paint hazards, including interim controls, abatement, and complete abatement.

Maintenance: Work intended to maintain adequate living conditions in a property, which has the potential to disturb lead-based paint or paint that is suspected of being lead-based.

Monitoring: Surveillance to determine (1) that known or suspected lead-based paint is not deteriorating, (2) that lead-based paint hazard controls, such as paint stabilization, enclosure, or encapsulation have not failed, (3) that structural

problems do not threaten the integrity of hazard controls or of known or suspected.

Paint Film Stabilization: An interim control method that stabilizes painted surfaces and addressed the underlying cause of deterioration. Steps include repairing defective surfaces, wet scraping, priming, and repainting surfaces coated with deteriorated lead-based paint; paint film stabilization includes cleanup and clearance.

Paint Removal: An abatement strategy that entails the removal of lead-based paint from surfaces. For lead hazard control work, this can mean using chemicals, heat guns below 1,100 °F, and certain contained abrasive methods. Open flame burning, open abrasive blasting, sandblasting, water blasting, and extensive dry scraping are prohibited paint removal methods. (Methylene chloride paint removers and dry scraping are also not recommended.)

Reevaluation: In lead hazard control work, the combination of a visual assessment and collection of environmental samples performed by a certified risk assessor to determine if a previously implemented lead-based paint hazard control measure is still effective and if the property remains lead-safe. Also known as reinspection.

Replacement: Replacement of existing features can be an appropriate abatement technique if the feature is deteriorated beyond repair or if the feature is of minor significance

Treatment: In residential lead-based paint hazard control work, any method designed to control lead-based paint hazards. Treatment includes interim controls, abatement, and removal. Hazardous waste "treatment" is a method, technique, or process (such as neutralization) that is designed to change the physical, chemical, or biological character or composition of hazardous waste to neutralize it; render it non-hazardous or less hazardous; recover it; make it safer to transport, store, or dispose; or allow for easier recovery, storage, or volume reduction.

Lead Poisoning

Environmental Intervention Blood Lead Level: The level of lead in blood that requires intervention in a child under age six. This is defined as a blood lead level of 20 μg/dL (micrograms per deciliter) of whole blood or above for a single test, or blood lead levels of 15-19 μg/dL in two tests taken at least three months apart.

LEAD-BASED PAINT – KEY UNITS OF MEASUREMENT

μg (Microgram): A Microgram is 1/1000th of a milligram (or one millionth of a gram). To put this unit into perspective, a penny weighs 2 grams. To get a

microgram, you would need to divide the penny into 2 million pieces. A microgram is one of those two million pieces.

ft^2 (Square foot): One square foot is equal to an area that has a length of one foot (12 inches) and a width of one foot (12 inches).

µg/dL: Micrograms per deciliter used to measure the level of lead in children's blood to establish whether intervention is needed. A deciliter ($1/10^{th}$ of liter) is a little less than half a cup. As noted above, a microgram is the same weight as one penny divided into two million parts.

mg/cm^2: Milligrams per square centimeter, used for paint by XRF machines.

percent: Percent by weight, used usually for lead-based paint (1 percent = 10,000 µg/gram.

ppm: Parts per million by weight, equivalent to µg/gram (10,000 ppm = 1 percent). Used to measure lead in paint and soil.

LEAD-BASED PAINT STANDARDS

Paint – Definition of Lead-Based Paint

Paint that contains at least:

- 1 milligram per square centimeter (mg/cm^2) of lead;
- 0.5 percent lead; or
- 5,000 parts per million (ppm) lead by dry weight.

APPENDIX S

NCDENR File Review Documentation

SITEX
Environmental, Inc.

P.O. Box 13108
Research Triangle Park, NC 27709
919-544-4587

RECEIVED 12-21-93
ON SITE ~~B~~ BY:
PHIL OROZCO
NILE TESTERMA

LEVEL I
ENVIRONMENTAL PROPERTY ASSESSMENT

AMERICAN TEXTILE SERVICES, INC.
800 N. MANGUM STREET
DURHAM, NC

NOVEMBER 3, 1992

AMERICAN TEXTILE SERVICES, INC.
LEVEL I ENVIRONMENTAL ASSESSMENT

INTRODUCTION

At the request of Mr. Ted Rollins, Mr. Jack Garrison, Mr. Tim Monroe, and Mrs. Kathi Wagner of SITEX Environmental, Inc. (SITEX) conducted a Level I environmental assessment of the American Textile Services, Inc. (ATS) facility located at 800 N. Mangum Street, Durham, North Carolina (Figure 1), on October 8, 1992. This site inspection was performed in accordance with standard accepted practices and in accordance with the "Guidelines for Assessment of Environmental Conditions Prior To A Real Estate Transaction" (Attachment 1).

SITE INSPECTION

The subject site is located in Central Durham on Mangum Street at the intersection with Corporation Street (Figure 2). The site is an approximately two acre parcel of land with a 25,000 sq. ft. concrete block building with concrete and wooden floors. The front of the building contains finished office space, while the remainder of the building is a commercial laundry facility. Surrounding properties are a combination of commercial and residential. None of these nearby and adjacent properties are expected to adversely impact the subject site.

A walk-through inspection did not reveal any wells, streams, lakes or ponds, PCB-filled transformers, or stressed vegetation on the property. Three pole-mounted, dry-type transformers on the southern side of the property on Corporation Street are the only supply of electricity. These transformers appear to be the non-PCB type and belong to Duke Power.

The front offices have carpeted floors, a drop ceiling, and wood panelled walls. The bathrooms have sheet linoleum floors, and some other areas have linoleum tile under the carpet. The floor in the laundry area is a concrete slab. Fiberglass batt insulation is above the drop ceiling in the offices. All building materials are in good shape. Water and sewer services are provided by the City of Durham.

ASBESTOS CONTAINING MATERIALS

During the walk-through inspection, SITEX identified several suspected asbestos containing materials that were in poor condition. The following suspect samples were collected:

A. Hot water tank next to wall in boiler room, sample #62810-001;

B. Pipe insulation on line next to wall behind the 100 HP boiler, sample #62810-002;

C. Steam header insulation on the 200 HP boiler, sample #62810-003;

D. Insulation on ground in the crawlspace in the room next to stairs leading to boiler room, sample #62810-004;

E. Piping insulation on lines in ceiling in the room next to stairs leading to boiler room, sample #62810-005.

Samples were submitted to Centurion Analytical Laboratory from each area above, and areas A, D, and E were found to contain asbestos. the sampling results are included as Attachment 2. Each of these materials is damaged to the extent that employees entering the area are probably exposed to asbestos fibers in the air. Immediate action is required to repair or remove all damaged asbestos containing building materials, to limit access to these areas, and to notify employees of their exposure to asbestos per OSHA Regulations 29 CFR 1910 and 1926.

DRUM STORAGE AREA

Investigation of Drum Storage Area

There are currently 8 drums located on the north of the building as shown in Figure 2. Labels indicate that 4 of the drums contain mineral spirits. One drum is marked as containing solvent (type unspecified). The other 3 drums are unlabelled and unmarked and 1 of these is empty or nearly empty. None of the drums appear to be leaking. However, soils beneath the drums are stained, perhaps as a result of previous drum storage activities. A soil sample was collected from about 4 or 5 inches below the surface at a point about 5 feet away from the building and 4 feet away from the concrete pad (see Figure 2.) The sample was placed in a clean jar and was subsequently analyzed.

Our field investigation and subsequent sampling effort revealed that (1) corrective action is needed to remediate contaminated soils in the drum storage area and (2) drums are being improperly stored in violation of federal RCRA regulations and NC Hazardous Waste Management Rules (15A NCAC 13A). Each of these problems is addressed more specifically below.

Hazardous Waste Contaminated Soils

The previously described soil sample was analyzed by Chemical & Environmental Technology, Inc. for the following waste constituents:

High Fraction Hydrocarbons - (EPA SW-846 Extraction Method 3550). This method is used to extract non-volatile and semi-volatile organics including mineral spirits.

Low Fraction Hydrocarbons - (EPA SW-846 Extraction Method 5030). This method is used to extract volatile organics such as those found in gasoline.

Halogenated Volatile Organics - (EPA SW-846 Method 8010). This method will extract chlorinated solvents including those traditionally used in dry cleaning operations.

Aromatic Volatile Organics - (EPA SW-846 Method 8020).

The results are included as Attachment 3. Elevated concentrations of mineral spirits, BTX (benzenes, toluene, and xylenes) and tetrachloroethane were found. According to EPA policy, soils contaminated with hazardous waste constituents must be treated such that the hazardous waste constituents are no longer detected. The NC Division of Solid Waste Management requires that soil be remediated so that hazardous wastes are not present above practical quantitation limits (PQLs). PQLs for the contaminants of primary concern in the subject soil are:

Benzene	2	µg/l
Ethyl Benzene	2	µg/l
Tetrachlorethane	0.5	µg/l
Toluene	2	µg/l
Xylene	5	µg/l
TPHs	10	mg/l

The state may permit alternative treatment limits on a case-by-case basis.

The sampling results in Attachment 3 indicate that the detection limit for organics in this soil sample was 100 µg/kg. This limit is considerably higher than the PQLs for many constituents because the very high concentration of xylene masked the ability to detect other organics below the 100 µg/kg detection limit. Therefore, it is possible that there are other hazardous waste constituent present at concentrations above the PQL.

Improper Drum Storage

Facilities which generate hazardous waste in quantities ranging from 100 kg (220 lbs.) to 1000 kg (2200 lbs.) per calendar month (small quantity generators (SQG)) are required to obtain an EPA ID number, and to adhere to manifesting, packaging, labeling and recordkeeping requirements spelled out in 15A NCAC 13A, Rule .0007. Additionally they must comply with requirement of 15A NCAC 13A, Rule .0010 which require that containers be inspected and maintained in good condition. Facilities cannot store drums of hazardous waste indefinitely. Small quantity generators are permitted to store wastes for up to 180 days without a RCRA Part B Permit. Farthing Fabricare has been issued an EPA ID number (NCD 982165102) and is classified as a small quantity generator. The facility does not have a RCRA Part B Permit and cannot store hazardous waste in excess of 180 days. Furthermore, drums are not currently labeled and inspected as required under 15A NCAC 13A, Rules .0007 to .0010.

PAST USES OF THE SITE AND SURROUNDING LAND

Records Review

SITEX investigated whether any of the following property types occurred within a one-mile radius to determine the potential impact of past and ongoing activities on the subject property:

- Superfund site
- Suspected contaminated site
- Active/inactive landfill or dump
- Hazardous waste (RCRA) facility
- Groundwater incident

A review of the federal National Priorities List (NPL) as found in the October 14, 1992 Federal Register indicates that there are no Superfund sites in the City of Durham.

A review of the North Carolina inventory of CERCLA sites was conducted using the June 4, 1992 USEPA WASTELAN Preremedial/Federal Facility Report issued by NCDEHNR. This report lists 6 sites within a 1 mile radius of the subject property.

These sites are listed either because (1) federal regulations required a site screening to determine whether waste disposal practices pose a threat to the environmental or public health or (2) DEHNR had knowledge of soil, groundwater or subsurface water contamination. The location of these sites is shown on Figure 1

After the initial site screening, DEM determined that the following sites posed no environmental or public health problems:

- USA Reserves XVIII Airborne Corp - 724 Foster St.
- Continental Forest Industries - 923 Franklin St.

Another site, Daugherty Chemical, requires little or no further remediation.

- Daugherty Chemical, 307 Walker Street - Low concentrations of cyanide and mercury are still present in localized areas of what is now an elderly housing project. All drums and several truckloads of contaminated soils were removed prior to construction.

The other 3 sites have no adverse impact on current use of the subject property. All sites are at a distance of at least ½ mile. The subject property relies on the Durham public water supply which is in no way threatened by these sites. These sites are described briefly below:

- Southchem Site, 750 Markham St. - This abandoned landfill was closed in 1978. An intermittent creek, running northeast of the site shows contamination with chlorinated and non-chlorinated solvents, boron, dieldrin, and alpha-BHC. Unstable slopes of the landfill continue to erode. There is the potential for further contaminant leaching as well as risk of fire and danger from direct contact.

- Durham Coal Gasification Site, 708 Gilbert St. - Currently the location of a feed mill and farm supply store, soils and sediments from an intermittent creek running into Goose Creek show continue presence of PAH's. Remediation is being planned.

- Liggett & Myers Tobacco, 114 South Buchanan St. - Printing operations conducted prior to 1978 led to soil contamination with hexane, toluene, isopropyl acetate and anhydrous ethyl alcohol. This site is under remediation.

SITEX also reviewed the April 14, 1992 list of active NC RCRA facilities (all facilities issued an EPA ID number). While there are several hazardous waste generators located within a one-mile radius of the subject property, none of these are waste treatment, storage or disposal facilities and, therefore, would not have an adverse impact on the subject property.

Finally, SITEX reviewed the North Carolina list of reported groundwater incidents last updated October 6, 1992. There are a total of 36 groundwater incidents reported within a one-mile radius of the subject property. The only groundwater incident

reported within a ¼ mile radius of the subject property occurred at the Brame Service Station at 619 Foster Street. Gasoline contaminated soils were found during removal of 3 underground storage tanks in December 1988. At the time contaminated soils were segregated and plans were underway to aerate the soils. Most other incidents involve gasoline or fuel oil underground storage tanks. Remediation is underway or completed at most sites. None of these sites threaten the Durham City Water Supply or otherwise adversely affect the subject property.

On October 19, SITEX contacted the Raleigh Regional Office of the Division of Environmental Management (DEM) to determine if any records of permit violations, inspections, or enforcement actions exist for the site.

Mr. Ernie Fuller of the Air Quality Section indicated that there are no air permits for this facility under the name of Farthing Fabricare, Johnson Forester, Inc. or American Textile Service. There is no record of any enforcement actions initiated by the Air Quality Section. An air cleaning device on the roof needs to be permitted as required by NCAC Title 15A Subchapter 2D.

Mr. Nile Testerman of the Groundwater Section indicated that 3 USTs were removed from the subject property on 12/31/88 and that 3 USTs remain. Ms. Annett Parker, with the Groundwater Section of the State DEM was contacted for additional information on these tanks. The tanks were described as follows:

10,000-gallon fuel oil tanks - installed 1978
7,500-gallon petroleum solvent tank - installed 1976
5,000-gallon petroleum solvent tank - installed 1976

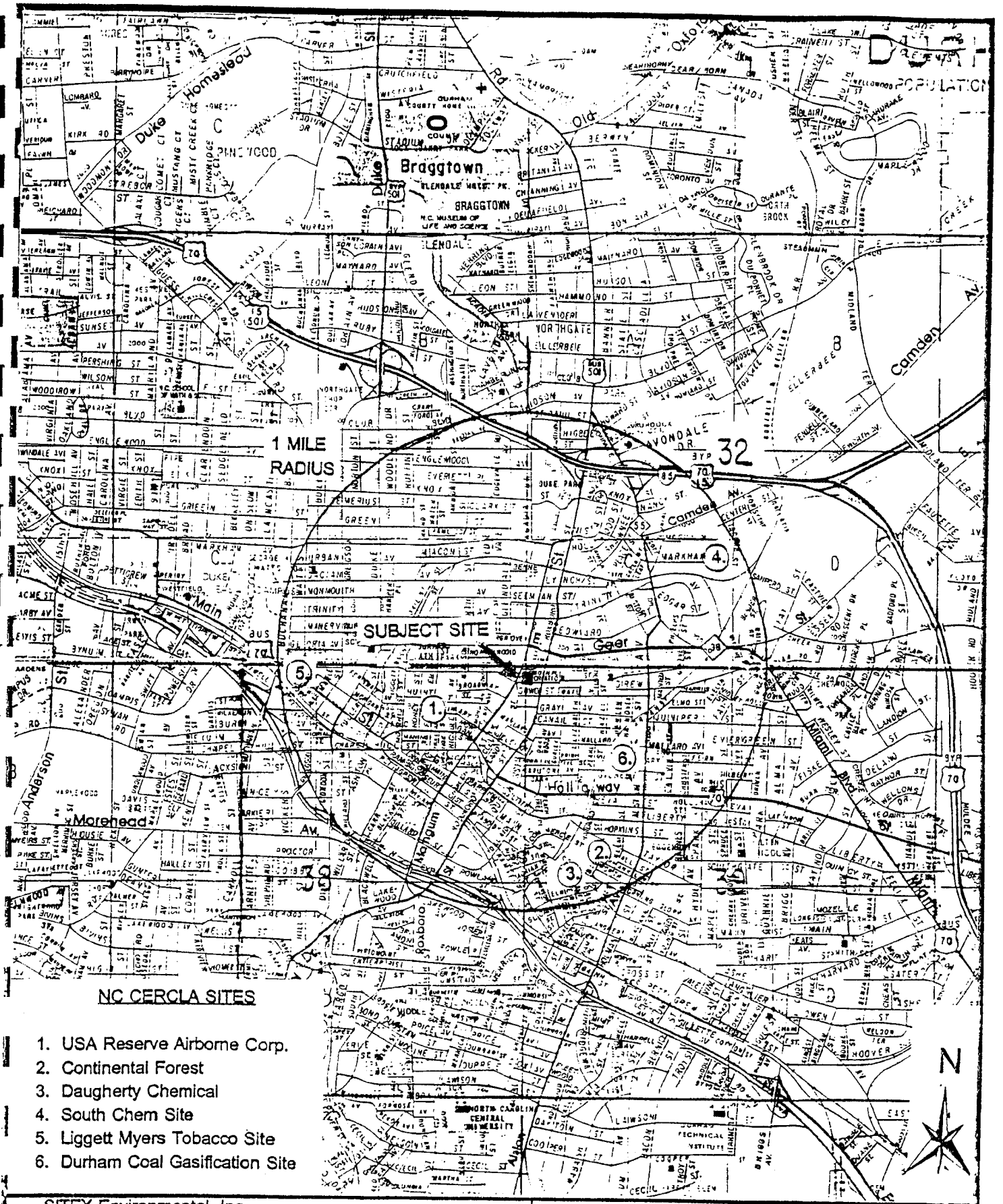
There was no evidence during our site inspection, that these tanks are currently in service. Out-of-service USTs must be closed in accordance with NCAC 15A 2N .0800. Because of the age of the existing tanks, soil borings should be taken and the samples analyzed for total petroleum hydrocarbons during closure.

Additionally, the company that removed the USTs in December 1988 should be contacted or their records reviewed to determine whether there was any evidence of soil or groundwater contamination during tank removal. Further sampling may be needed in the vicinity of these tanks.

Ms. Sherry Bagwell, City of Durham, Industrial Wastewater Section indicated that the facility has an ongoing problem meeting oil and grease permit limitations. Violations were cited on the following dates: 7/91, 1/92, 4/92, and 7/92. The City would consider raising the limits if ATS can produce adequate justification of the need for higher limits by January, 1993

Aerial Photographs

SITEX reviewed aerial photographs from 1984-85 and 1973 to check for past activities which may adversely impact the subject property. The photographs indicated that the surrounding properties existed as in their current state with the exception of a second small building located adjacent to the abandoned service station on the subject property. This building was visible on the 1973 aerial photograph. The photographs showed no evidence of other past uses of the subject site which would adversely impact its current commercial use.

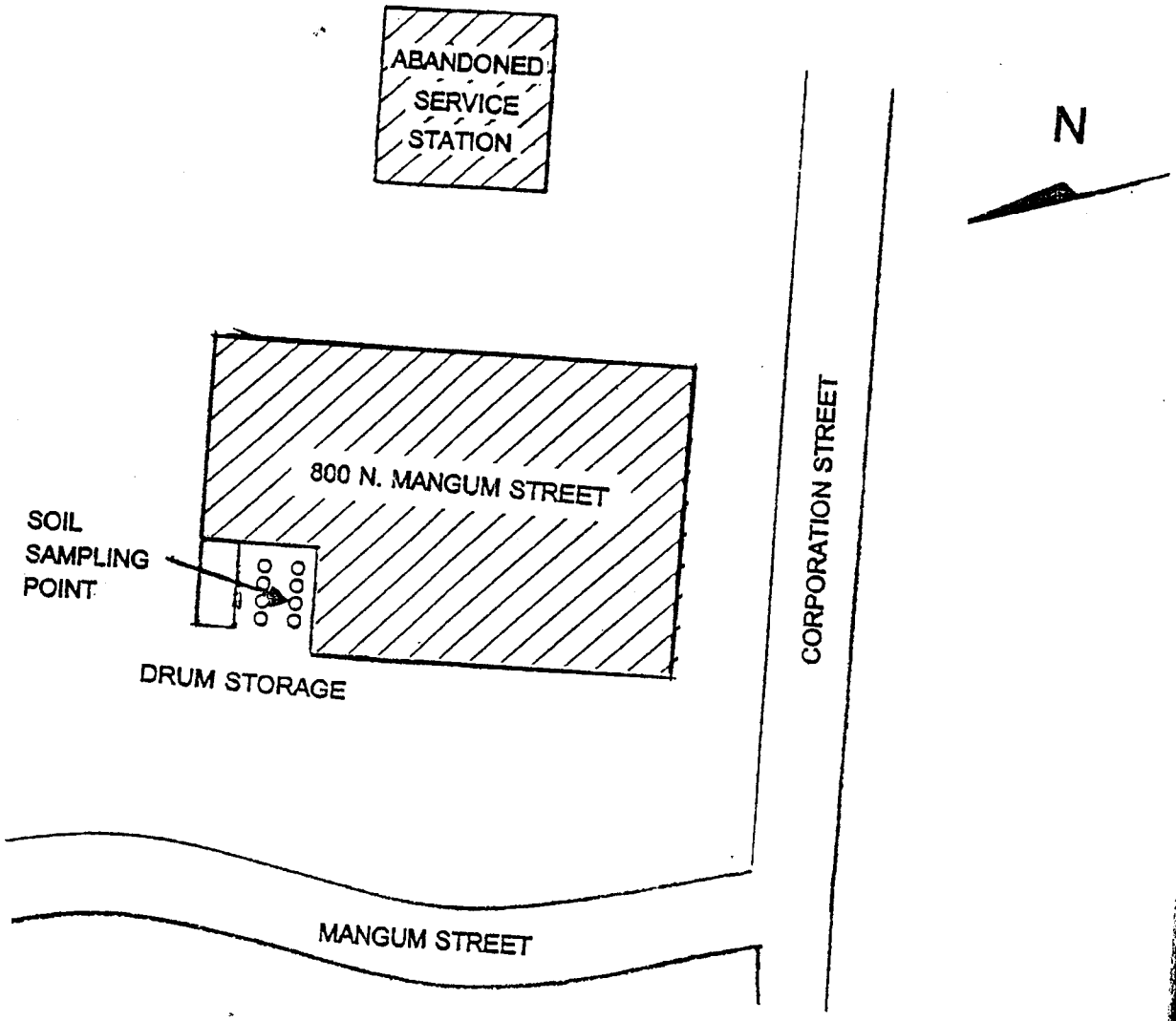


SITEX Environmental, Inc.
P. O. Box 13108
Research Triangle Park, NC 27709

DATE: 11/2/92

FIGURE 1 - LOCATION MAP
AMERICAN TEXTILE SERVICE
800 N. MANGUM ROAD, DURHAM, NC

SCALE: 0 1000 2000
APPROXIMATE SCALE OF FEET



SITEX Environmental, Inc.
P. O. Box 13108
Research Triangle Park, NC 27709

DATE: 11/2/92

FIGURE 2 - SITE MAP
AMERICAN TEXTILE SERVICE
800 N. MANGUM STREET, DURHAM, NC

SCALE: NONE

ATTACHMENT 1

SITEX
Environmental, Inc.

P.O. Box 13108
Research Triangle Park, NC 27709
919-544-4587

GUIDELINES FOR ASSESSMENT OF ENVIRONMENTAL CONDITIONS PRIOR TO A REAL ESTATE TRANSACTION

Assessments shall be conducted according to the following guidelines and documented as outlined in Section 3. The environmental assessments will be conducted in a systematic and professional manner to insure that any past, present, or future environmental condition(s) have been identified and categorized as to risk potential.

The assessment as initially authorized is defined as Level I - Initial Site Assessment. No work beyond Level I shall be conducted without the prior approval of the client.

LEVEL I - INITIAL SITE ASSESSMENT

1. SITE HISTORY - Prior to visiting the property, the firm should familiarize itself with the property layout and determine if there is any history of environmental concerns or problems.

a. Research the property and adjacent property within 1/4 miles using building drawings and layouts, topographic maps, geological and hydrological information, and past and present aerial photography to:

1) Insure thorough familiarization with property and adjacent areas
2) Identify history of property use
3) Evaluate the potential for naturally occurring environmental problems, e.g. radon or methane.

b. Review public documents available concerning the past history of the property to determine ownership/site usage and utility easements.

c. Interview personnel knowledgeable of the property, especially local, state and federal regulatory agencies to determine any environmental concerns, permits granted or citations issued.

d. Determine and indicate whether the surrounding property within 1/4 mile has been used for the following uses:

1) Vacant land
2) Agricultural (pesticide or herbicides used)
3) Pasture/range land
4) Tank/drum/equipment storage

GUIDELINES (continued)

5) Industrial, manufacturing facility (type)
6) Mining/quarries/sand & gravel extraction
7) Oil/gas exploration
8) Chemical/petroleum or waste storage /processing /injection wells
9) Military installation including bases, armories, arsenals, or test ranges
10) Fill areas.

e. Contact and establish the latest information from local, state, or federal agencies concerning sites of possible environmental contamination within two miles of the property. Indicate what agencies were contacted, the name of the person contacted, and the information obtained.

1) State whether any of the following lies within a two-mile radius of the subject property:

a) Superfund site
b) Suspected contaminated site
c) Operating landfills
d) Inactive landfill or dump
e) Hazardous waste facilities
f) Industrial or waste water discharges to surface waters that run through or near the site

2) State the distance from the property to the subject facility. What is the name and address of the facility and is there potential for contamination onto the subject property?

3) Identify any land within two miles of the property that is proposed for a permitted landfill or hazardous waste facility. If such is determined to exist or is planned, give details as to the potential of such facilities creating an adverse environmental impact on the subject property.

2. SITE VISIT - Note any of the following during a walking tour of the property:

a. Asbestos-containing materials (friable and non-friable) (obtain samples to confirm asbestos content of suspect materials, as needed)

b. Material storage areas, tanks, containers, or drums (Note type, size, conditions, contents, as possible)

GUIDELINES (continued)

c. Potential PCB sources, i.e., electrical transformers, hydraulic elevator oil reservoirs or other hydraulically operated equipment

d. Liquid storage tanks - indicate the following about current or previously existing liquid storage tanks:

1) Contents, i.e. heating oil, gasoline, or chemical products
2) Number and location on the property or adjacent property. Registration?
3) Above or below ground storage
4) Age of tanks and general condition
5) Any known leaks or spills, if so explain.

e. Describe what waste is generated or brought onto the site. How is it disposed? Hazardous waste generator? Provide details

f. Are there any pesticides, herbicides used on the site? (Explain how used, stored, and impact on site)

g. Are there any discolored or disturbed soil areas?

h. Areas of sparse, sick, or dead vegetation.

i. Discolored or polluted water.

j. Unusual or noxious odors.

k. Water sources and condition.

l. Groundwater monitoring wells or any other type of wells.

m. Roadbeds or two-tracts with no apparent outlet or purpose (Possible dump site).

n. Condition of any suspect area noted as a result of the pre-visit investigation.

3. ASSESSMENT REPORT - The Level I environmental assessment results will be reported in letter format. (In North Carolina the asbestos inspection will be performed by an accredited asbestos inspector). Where environmental concerns have been noted, recommendations for Level II or higher action will be outlined. No action will be taken, however, unless approval by the client has been given.

MARKET\GUIDE.EVA

ATTACHMENT 2

Sitex Corporation

Environmental Division
2310 Creve Coeur Mill Road
P.O. Box 43128
Maryland Heights, Missouri 63043
(314) 298-0090

CUSTODY TRANSFER RECORD/LABORATORY WORK REQUEST

PROJECT NUMBER: 62810 DATE WORK IN: 10-8-92 REPORT TO: JHG Page 1 of 1

REQUESTED BY: J Garrison RECEIVED BY: _____ DATE REQUIRED: 10-13-92

SPECIAL INSTRUCTIONS: Bulk asbestos samples

SAMPLE IDENTIFICATION						ANALYSES REQUESTED	
ITEM	LAB NO.	SITE CODE/ SAMPLE DESCRIPTION	DATE COLLECTED	PRESERV.	CONTAINER	asbestos	COMMENTS
1	1	Blr Room Hot Wtr Tank	10-8		baggie	✓	
2	2	Pipe Insul, Small Blr	"		"	✓	
3	3	Steam Header	"		"	✓	
4	4	Crawlspace Piping	"		"	✓	
5	5	Junk Room Piping	"		"	✓	
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							

ITEMS TRANSFERRED	RELINQUISHED BY	Date	Time	RECEIVED BY	Date	Time	REASON for TRANSFER
5	Jack H Garrison	10/8	3:00pm	[illegible]	10/14	10:00	

62810

Centurion Analytical Laboratory

CENTURION ANALYTICAL LABORATORY

BULK SAMPLE ANALYSIS

Client: **SITEX, NC**

Date Received: **10-14-92**

Client Project No.: **62810**

Date Reported: **10-14-92**

Technique: Polarized Light Microscopy with Dispersion Staining In accordance with NIOSH 7403 Draft Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
B-3056	62810-001	30-35% Chrysotile	Cellulose Mineral Wool	Binders
B-3057	62810-002	None Detected	Cellulose Synthetic Fiber	Paint, Aggregate, Binders
B-3058	62810-003	None Detected	Cellulose Horse Hair	Paint, Binders
B-3059	62810-004	15-20% Amosite 10-15% Crocidolite	Cellulose Cellulose Mesh	Binders
B-3060	62810-005	10-15% Amosite 20-25% Chrysotile	Cellulose	Paint, Binders

Comments: _____

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

Laura Mitchell

Laura Mitchell
Laboratory Supervisor

AIHA Bulk Asbestos Proficiency Testing Program Identification # 63043-001
RTI Center for Measurements and Quality Assurance

11905 BORMA[illegible] DRIVE ST. [illegible]OUIS, MISSOURI 6[illegible]46 (314) [illegible]-3204 FAX (314) 569-0051

ATTACHMENT 3

[illegible]-A Woodwin[illegible] Indus[illegible] Ct.
Cary, NC 27511 (919) 467-3090

CHAIN OF CUSTODY RECORD

CLIENT NAME: SITEX Environmental Inc.
ADDRESS: PO Box 13108
RTP NC 27709
Attn: Jack Garrison PHONE: 544-4587
PROJECT NO: 62810
PROJECT NAME:
COLLECTED BY: (Signature) [signature]

BILL TO: same
ADDRESS:
PURCHASE ORDER NO:

PRESERVED IN FIELD ☐
PRESERVED IN LAB ☐
RECEIVED ON ICE ☒

ANALYSES REQUIRED: 8010, 8020, TPH High, TPH Low

C & ET NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.	NO. CONTAINERS	8010	8020	TPH High	TPH Low		REMARKS	NONE	NaOH	H_2SO_4	HNO_3	HCl
4289	10/8	10:30am	✓		6281-001 Soil	1	✓	✓	✓	✓		Look for Petroleum Naptha or Mineral Spirits					

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)
[signature]	10/8	1630	Mark Hosl.				

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	REMARKS:
Mark Hosler	10/8/92	1650	[signature]	10/8/92	16:50	

REPORT COPY

Chemical & Environmental Technology, Inc.

ENVIRONMENTAL LABORATORY AND CONSULTING SERVICES

JOHN M. OGLE
PRESIDENT

P. O. BOX 12298
RESEARCH TRIANGLE PARK, N. C. 27709
PHONE (919) 467-3090
FAX (919) 467-3515

REPORT OF ANALYSES

SITEX ENVIRONMENTAL, INC.
PO BOX 13108
RESEARCH TRIANGLE PK, NC 27709-
Attn: T. MONROE

PROJECT NAME: SITEX # 62810
DATE: 10/23/92

62810

SAMPLE NUMBER- 64289 SAMPLE ID- 6281-001 SOIL
DATE SAMPLED- 10/08/92 TIME SAMPLED- 1030 SAMPLER- T. MONROE
DATE RECEIVED- 10/08/92 TIME RECEIVED- 1650
DELIVERED BY- MARK HOSLER RECEIVED BY- JTC

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
PURGEABLE HALOCARBONS 8010	8010			10/16/92		ALT		
BROMODICHLOROMETHANE	8010			10/16/92		ALT	<100	ug/kg
BROMOFORM	8010			10/16/92		ALT	<100	ug/kg
BROMOMETHANE	8010			10/16/92		ALT	<100	ug/kg
CARBON TETRACHLORIDE	8010			10/16/92		ALT	<100	ug/kg
CHLOROBENZENE	8010			10/16/92		ALT	<100	ug/kg
CHLOROETHANE	8010			10/16/92		ALT	<100	ug/kg
2-CHLOROETHYLVINYL ETHER	8010			10/16/92		ALT	<100	ug/kg
CHLOROFORM	8010			10/16/92		ALT	<100	ug/kg
CHLOROMETHANE	8010			10/16/92		ALT	<100	ug/kg
DIBROMOCHLOROMETHANE	8010			10/16/92		ALT	<100	ug/kg
DICHLORODIFLUOROMETHANE	8010			10/16/92		ALT	<100	ug/kg
1,1-DICHLOROETHANE	8010			10/16/92		ALT	<100	ug/kg
1,2-DICHLOROETHANE	8010			10/16/92		ALT	<100	ug/kg
1,1-DICHLOROETHENE	8010			10/16/92		ALT	<100	ug/kg
TRANS-1,2-DICHLOROETHENE	8010			10/16/92		ALT	<100	ug/kg
1,2-DICHLOROPROPANE	8010			10/16/92		ALT	<100	ug/kg
CIS-1,3-DICHLOROPROPENE	8010			10/16/92		ALT	<100	ug/kg
TRANS-1,3-DICHLOROPROPENE	8010			10/16/92		ALT	<100	ug/kg
METHYLENE CHLORIDE	8010			10/16/92		ALT	<100	ug/kg
1,1,1,2-TETRACHLOROETHANE	8010			10/16/92		ALT	<100	ug/kg

Chemical & Environmental Technology, Inc.

ENVIRONMENTAL LABORATORY AND CONSULTING SERVICES

JOHN M. OGLE
PRESIDENT

P. O. BOX 12298
RESEARCH TRIANGLE PARK, N. C. 27709
PHONE (919) 467-3090
FAX (919) 467-3515

CONTINUATION OF DATA FOR SAMPLE NUMBER 64289

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TETRACHLOROETHANE	8010			10/16/92		ALT	385	ug/kg
1,1,1-TRICHLOROETHANE	8010			10/16/92		ALT	<100	ug/kg
1,1,2-TRICHLOROETHANE	8010			10/16/92		ALT	<100	ug/kg
TRICHLOROETHENE	8010			10/16/92		ALT	<100	ug/kg
TRICHLOROFLUOROMETHANE	8010			10/16/92		ALT	<100	ug/kg
VINYL CHLORIDE	8010			10/16/92		ALT	<100	ug/kg
HIGH FRACTION HYDROCARBON	3550	10/15/92	JBR	10/21/92		ALT	394	mg/kg
LOW FRACTION HYDROCARBON	5030			10/19/92		ALT	<1.0	mg/kg
PURGEABLE AROMATICS IN SOIL	8020-S			10/16/92		ALT		
BENZENE	8020-S			10/16/92		ALT	109	ug/kg
CHLOROBENZENE	8020-S			10/16/92		ALT	<100	ug/kg
1,2-DICHLOROBENZENE	8020-S			10/16/92		ALT	<100	ug/kg
1,3-DICHLOROBENZENE	8020-S			10/16/92		ALT	<100	ug/kg
1,4-DICHLOROBENZENE	8020-S			10/16/92		ALT	<100	ug/kg
ETHYLBENZENE	8020-S			10/16/92		ALT	1100	ug/kg
TOLUENE	8020-S			10/16/92		ALT	271	ug/kg
XYLENES	8020-S			10/16/92		ALT	20,000	ug/kg

TPH HIGH IDENTIFIED AS MINERAL SPIRITS. HYDROCARBONS PER "GUIDELINES FOR REMEDIATION OF SOIL CONTAMINATED BY PETROLEUM", NCDEHNR, DEM, APPENDIX F, AUGUST, 1990. OTHER ANALYSES PER SW-846, THIRD EDITION, NOVEMBER, 1986.

LABORATORY DIRECTOR Jessie Entzenberger

ENSCI®

ENGINEERING GROUP, P.A.

May 6, 1994

Mr. Jay Zimmerman
North Carolina Department of
Environment, Health and Natural Resources
Division of Environmental Management
3800 Barrett Drive
Raleigh, North Carolina 27609

Re: Tank Closure Report
800 Mangum Street
Durham, North Carolina
EEG Project No. R182011

Dear Mr. Zimmerman:

Attached is a copy of the tank closure report for the above referenced site. If you have any questions, please call me at 787-8209.

Sincerely,

ENSCI ENGINEERING GROUP, P.A.

David W. Lazzo/smt

David W. Lazzo, E.I.T.
Project Engineer

DWL/smt

attachment

Post Office Box 80275
Raleigh, North Carolina 27623-0275
T (919) 787-8209
F (919) 881-8205

1108 Old Thomasville Road
High Point, North Carolina 27260
T (919) 883-7505
F (919) 882-7955

ENSCI®

ENVIRONMENTAL, INC.

FARTHING TANK REMOVAL
SUMMARY

On March 21, 1994, ENSCI personnel were on site to excavate and remove two underground storage tanks (USTs) from the subject site located at 800 Mangum Street in Durham, North Carolina. The UST inventory scheduled for removal included:

1 - 8,000 gallon Stoddard solvent tank
1 - 10,000 gallon diesel fuel tank

Contents of the tanks were pumped out prior to excavation. Groundwater was encountered in both excavations. A slight sheen of product was noted in the diesel UST excavation; and an unmeasurable skim of product was noted in the Stoddard solvent UST excavation. In accordance with DEM guidelines, groundwater samples were obtained from each excavation.

During transport, the groundwater sample containers were broken, thereby making re-sampling necessary. Because the excavations were backfilled with stone, it was not possible to obtain new samples in the original excavation. Therefore, new groundwater samples were collected through hand auger borings located beside each former tank excavation (locations showing in Drawing No. 2).

Lab analyses of the groundwater samples taken at the Stoddard solvent UST revealed volatile aromatic compounds at concentrations at or below North Carolina Standards. Various semi-volatile compounds (for which no standards have been developed) were also detected at low concentrations. Based on visible staining and notable odor, all excavated during the removal of the Stoddard solvent UST was stockpiled on site. It should be noted, however, that the Stoddard solvent UST appeared to be in excellent condition upon its removal. It is suspected that contamination of the soil and groundwater surrounding this UST were the result of overfill and/or surface spillage.

No detectable levels of volatile or semi-volatile compounds were found in the groundwater samples taken at the diesel fuel tank. Also, no soil contamination was noted along the diesel fuel pipe line.

In accordance with Division of Environmental Management (DEM) guidelines,the (suspected) release was reported, by telephone, to the Raleigh Regional Office on April 4, 1994.

1108 Old Thomasville Road
High Point, North Carolina 27260
T (919) 882-7911
F (919) 882-7951

Post Office Box 30275
Raleigh, North Carolina 27623-0275
T (919) 787-8213
F (919) 881-8205

Site Investigation Report For Permanent Closure of U.S.T.

FOR TANKS IN NC

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location. [SEE MAP ON REVERSE SIDE OF OWNER'S COPY (BLUE) FOR REGIONAL OFFICE ADDRESS].

Sate Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Please complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

Farthing
er Name (Corporation, Individual, Public Agency, or Other Entry)
21 Hillandale Road, Box 18-315
et Address
ham
nty
tham, North Carolina 27705
State Zip Code
-383-8309
Code Telephone Number

II. Location of Tank(s)

American Textiles Services
Facility Name or Company
Facility ID # (if available)
800 Mangum Street
Street Address or State Road
Durham, Durham
County City Zip Code
919-383-8309
Area Code Telephone Number

III. Contact Person

Name	Job Title	Telephone Number
Jim Farthing	Owner	(919) 383-8309

sure Contractor ENSCI Environmental, P.O. Box 80275, Raleigh, N.C. 27623 919 787-8209
(Name) (Address)
IEA, Inc., P.O. Box 12846, RTP, N.C. 27709 919 677-0090
(Name) (Address)

IV. U.S.T. Information / V. Excavation Condition

nk	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation Yes	Water in Excavation No	Free Product Yes	Free Product No	Notable Odor or Visible Soil Contamination Yes	Notable Odor or Visible Soil Contamination No
1	8,000	8' x 21'-4"	Stoddard Solvent	x		skim x		x	
	10,000	10'-6" x 16'	Diesel Fuel	x		sheen x			x

VI. Additional Information Required

See reverse side of blue copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

VII. Check List

Check the activities completed.

- [XX] Contact local fire marshall
- [XX] Notify DEM Regional Office before abandonment
- [X] Drain & flush piping into tank.
- [X] Remove all product and residuals from tank
- [XX] Excavate down to tank.
- [XX] Clean and inspect tank.
- [X] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
- [X] Cap or plug all lines except the vent and fill lines.
- [XX] Purge tank of all product & flammable vapors.
- [XX] Cut one or more large holes in the tanks.
- [X] Backfill the area.

Date Tank Permanently closed: 03/21/94

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening;
- [ ] Plug or cap all openings;
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used - please specify: _____

REMOVAL

- [XX] Create vent hole
- [XX] Label tank
- [XX] Dispose of tank in approved manner

Final tank destination: Shackleford Tank Disposal, Farmville, N.C.

VIII. Certification (Read and Sign)

ertify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached cuments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the itted information is true, accurate, and complete.

name and official title of owner or owner's authorized representative	Signature	Date Signed
David W. Lazzo - Staff Engineer		April 29, 1994

UST CLOSURE REPORT

1. Ownership of Tank(s)

Jim Farthing
Owner Name (Corporation, Individual, Public Agency or Other Entity)

1821 Hillandale Road, Box 18-315
Street Address

Durham
County

Durham North Carolina 27705
City State Zip Code

919 383-8309
Area Code Telephone Number

2. Location of Tank(s)

American Textile Services
Facility Name or Company

Facility ID # (if available)

800 Mangum Street
Street Address or State Road

Durham, Durham
County City Zip Code

919 383-8309
Area Code Telephone Number

3. Date of Closure March 21, 1994

4. Name(s) of EEG Personnel on site David Lazzo, Matt Gamble

5. Name(s) of excavation/other contractor personnel _____

6. Owner Contact Name: Jim Farthing

Address: 1821 Hillandale Road, Box 18-315

Phone No.: 919-383-8309

7. UST Information **8. Excavation Condition**

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
T1	8,000	8' x 21'-4"	Stoddard solvent	x		skim		x	
T2	10,000	10'-6" x 16'	Diesel Fuel	x		sheen			x

9. **UST Burial Depth (Base of UST)**

Tank No.	Burial Depth (ft.)
T1	10.5
T2	12.0

10. **UST Condition**

Tank No.	Uncorroded	Mild Corrosion	Pitted	Perforated
T1	x			
T2	x			

11. **Attach Site Map to include:**

- North Arrow
- Scale
- Adjacent roads/streets with names/route #'s
- Building(s)
- Subsurface conduits
- USTs, dispensers, product lines
- Sample locations (soil and water)
- Distance to adjacent/abutting water supply wells
- Distance to adjacent/abutting surface waters
- Location of stockpiled soil

12. Sampling (Indicate locations on Site Map)

Sample No.	Soil (S) or Water (W)	Depth Obtained (ft)	OVA Reading (ppm)	Submitted for Lab Analysis (Indicate Methods)
T2	W	9'		625 B/N w/TIC
T2	W	9'		602 + MTBE
T2	W	9'		EPA 239.2 (lead)
T1	W	13'		625 B/N w/TIC
T1	W	13'		602 + MTBE
T1	W	13'		EPA 239.2 (lead)
PB1	S	3'		3550
PB1	S	3'		5030
PB2	S	3'		3550
PB2	S	3'		5030

13. **Summarize Laboratory Results. Attach copy of Lab Report.**

See Table 1

14. **Stockpiled Soil**

Estimated amount 50 cubic yards.

Final Disposition (if known) _____

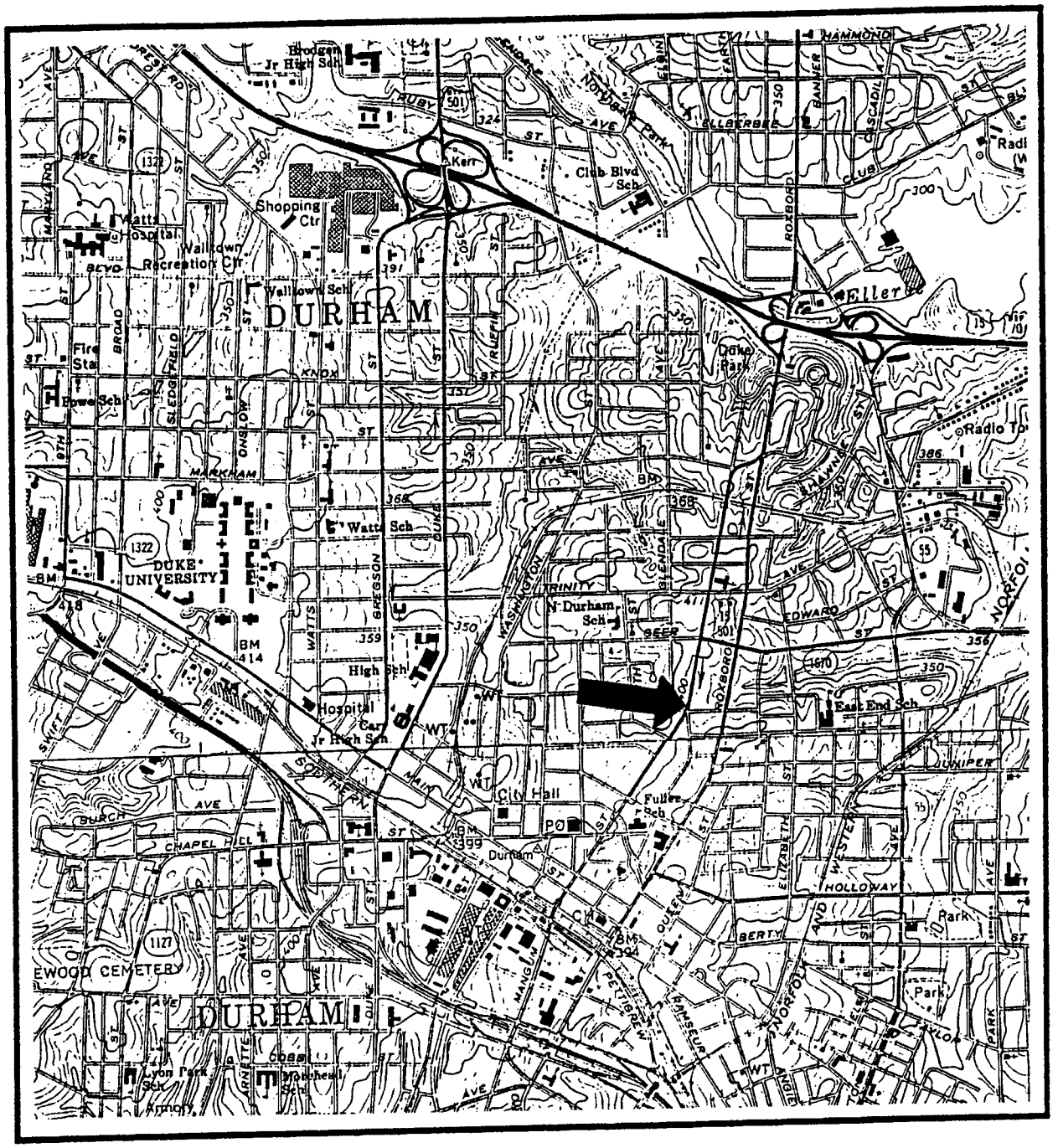
Approximately 50 cubic yards of soil were excavated from around the 8,000 gallon UST formerly containing stoddard solvent. The soil was stockpiled based on visible staining and notable odor. The majority of the stockpiled soil was excavated from above the UST and from the upper sidewalls of the excavation.

Table 1
FARTHING TANK CLOSURE
SAMPLE ANALYSES

Description	Analyte	Results (ppb)
Sample Location: T1 Sample Date: 3/24/94	Benzene	1
	Ethylbenzene	26
	Xylenes	74
	Acenaphthene	30
	Anthracene	22
	Benzo(a)fluoranthene	28
	Benzo(a)pyrene	30
	Benzo(b)flouranthene	28
	Benzo(g,h,i)perylene	20
	Benzo(k)fluoranthene	26
	Chrysene	31
	Fluoranthene	71
	Fluorene	28
	Indeno (1,2,3-cd)pyrene	21
	Phenanthrene	94
	Pyrene	52
	TIC	243*
	Lead	0.13 ppm
Sample Location: T2 Sample Date: 4/4/94	No compounds detected by methods 602, 625, or lead	-
Sample Location: PB1 Sample Date: 3/24/94	No compounds detected by methods 5030 or 3550	-
Sample Location: PB2 Sample Date: 3/24/94	No compounds detected by methods 5030 or 3550	-

Note: Results shown for detectable compounds only. See lab report for complete listing of analytes.
ppb - parts per billion
ppm - parts per million
TIC - tentatively identified compounds - results show total concentration of 10 TIC's. See lab report listing of compounds.

FIGURES



USGS 7.5 MINUTE SERIES TOPOGRAPHIC
NORTHWEST & SOUTHWEST DURHAM,
NC QUADRANGLE
PHOTOREVISED 1987

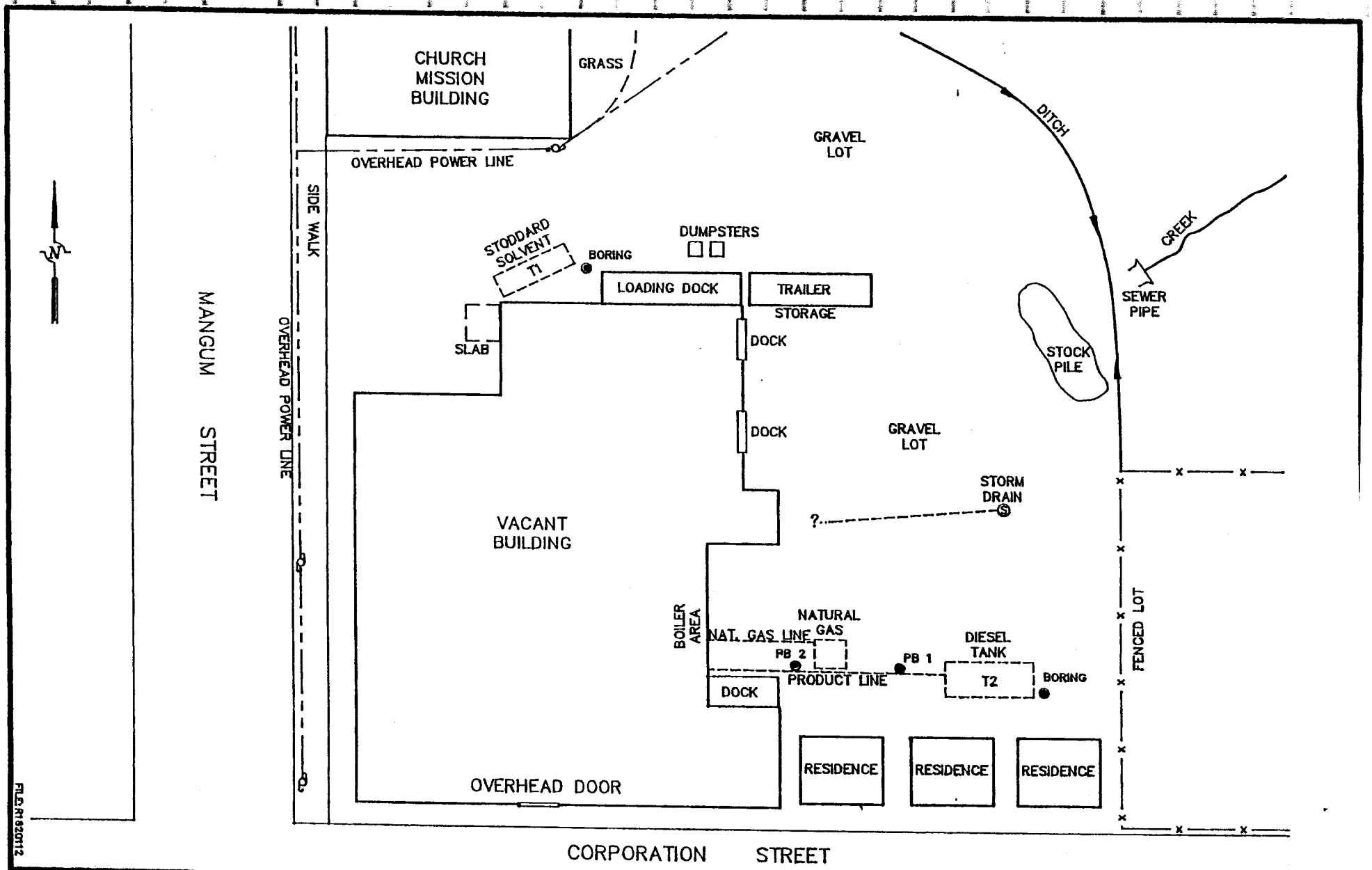
ENSCI®
ENGINEERING GROUP P.A.

VICINITY MAP

800 MANGUM STREET

DURHAM COUNTY — DURHAM, NC

SCALE:	PROJECT NO.:	FIGURE NO.:
1" = 2000'	R182011	1



ENSCI®
ENGINEERING GROUP P.A.

SITE MAP

800 MANGUM STREET

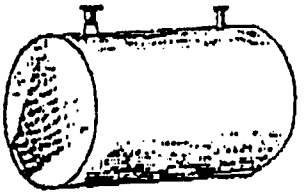
DURHAM COUNTY DURHAM ,NC

SCALE:NOT TO SCALE	PROJECT NO.: R182011	FIGURE NO.: 2

Tank Disposal Certificate

SHACKLEFORD TANK DISPOSAL

P.O. Box 246
Farmville, NC 27828
(919) 753-2041
FAX (919) 753-3162



OWNER
James Shackleford Jr.

CERTIFICATE OF TANK DISPOSAL

Customer ENSCI
(DURHAM)
PO # 5360

Date 3-23-94

Transported by: JAMES O SHACKELFORD JR.

Tank Disposed Number	Size	Weight	Product	Residue Amount	Origin
1	1000	920	Fuel Oil	None	Durham, N.C. ABOVE GROUND TANK
1	8000	7182	solvent	None	Durham, N.C.
1	10000	7445	Fuel Oil	None	Durham, N.C.
			Total Residue	NONE	

Tanks were disposed in accordance with API 1604, 1987 Removal and Disposal of Used Underground Petroleum Storage Tanks. Residue was disposed in accordance with U.S. EPA Regulations by licensed subcontractor. Lead free scrap steel was recycled by: Goldsboro Iron & Metal on 3-24-94

James O. Shackelford Jr.
SHACKLEFORD TANK DISPOSAL

Laboratory Results

Industrial & Environmental Analysts, Inc. (IEA)

EA Project #: 1196-605
EA Sample #: 9403586-01
ient Name: Ensci Corporation
ient Proj. I.D.: R182011
ample I.D.: T1

Matrix: Water
Date Received: 03/25/94
Date Sampled: 03/24/94

arameter	Method	Quantitation Limits	Results	Date Prepared	Date Analyzed	Analyst
Lead	EPA 239.2	0.010 mg/L	0.13 mg/L	03/25/94	03/28/94	RM

omments:

ORM RESP3 Rev. 030994

625

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE AROMATICS EPA 602 COMPOUND LIST

IEA Project Number:	1196-605	Date Received:	03/25/94
IEA Sample Number:	9403586-01	Date Sampled:	03/24/94
Client Name:	Ensci Corporation	Date Analyzed:	04/04/94
Client Project ID:	R182011	Analysis By:	Ware
Sample Identification:	T1	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	1
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	26
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	74

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit
Surrogate recovery exceeds method criteria due to suspected sample matrix interference.

FORM 602 Rev. 020494

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS BASE/NEUTRAL EXTRACTABLES EPA 625 COMPOUND LIST

IEA Project Number:	1196-605		
IEA Sample Number:	9403586-01	Date Received:	03/25/94
Client Name:	Ensci Corporation	Date Sampled:	03/24/94
Client Project ID:	R182011	Date Extracted:	03/29/94
Sample Identification:	T1	Date Analyzed:	04/06/94
Matrix:	Water	Analysis By:	Gregory
		Dilution Factor:	2.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acenaphthene	10	30
2	Acenaphthylene	10	BQL
3	Anthracene	10	22
4	Benzo(a)anthracene	10	28
5	Benzo(a)pyrene	10	30
6	Benzo(b)fluoranthene	10	28
7	Benzo(g,h,i)perylene	10	20
8	Benzo(k)fluoranthene	10	26
9	bis(2-Chloroethoxy)methane	10	BQL
10	bis(2-Chloroethyl)ether	10	BQL
11	bis(2-Chloroisopropyl)ether	10	BQL
12	bis(2-Ethylhexyl)phthalate	10	BQL
13	4-Bromophenyl phenyl ether	10	BQL
14	Benzyl butyl phthalate	10	BQL
15	2-Chloronaphthalene	10	BQL
16	4-Chlorophenyl phenyl ether	10	BQL
17	Chrysene	10	31
18	Dibenzo(a,h)anthracene	10	BQL
19	1,2-Dichlorobenzene	10	BQL
20	1,3-Dichlorobenzene	10	BQL
21	1,4-Dichlorobenzene	10	BQL
22	3,3'-Dichlorobenzidine	10	BQL
23	Diethyl phthalate	10	BQL
24	Dimethyl phthalate	10	BQL
25	Di-n-butylphthalate	10	BQL
26	2,4-Dinitrotoluene	10	BQL
27	2,6-Dinitrotoluene	10	BQL
28	Di-n-octylphthalate	10	BQL
29	Fluoranthene	10	71
30	Fluorene	10	28
31	Hexachlorobenzene	10	BQL
32	Hexachlorobutadiene	10	BQL
33	Hexachlorocyclopentadiene	10	BQL
34	Hexachloroethane	10	BQL
35	Indeno(1,2,3-cd)pyrene	10	21
36	Isophorone	10	BQL
37	Naphthalene	10	BQL

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS BASE/NEUTRAL EXTRACTABLES EPA 625 COMPOUND LIST

IEA Project Number:	1196-605		
IEA Sample Number:	9403586-01	Date Received:	03/25/94
Client Name:	Ensci Corporation	Date Sampled:	03/24/94
Client Project ID:	R182011	Date Extracted:	03/29/94
Sample Identification:	T1	Date Analyzed:	04/06/94
Matrix:	Water	Analysis By:	Gregory
		Dilution Factor:	2.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Nitrobenzene	10	BQL
39	N-Nitroso-di-n-propylamine	10	BQL
40	N-Nitrosodiphenylamine	10	BQL
41	Phenanthrene	10	94
42	Pyrene	10	52
43	1,2,4-Trichlorobenzene	10	BQL
44	Benzidine	*	*
45	N-Nitrosodimethylamine	10	BQL

Comments:
*This compound is no longer provided as a normal target deliverable for Method 625. Please contact your account representative for further information.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit
Quantition limit elevated due to extract dilution prior to analysis.
Extract diluted due to high concentration of target compounds present.
Surrogate recovery outside method specified criteria.
Analysis of associated sample spike confirmed low surrogate recovery due to suspected sample matrix interference.

Industrial & Environmental Analysts, Inc. (IEA)
TENTATIVELY IDENTIFIED COMPOUNDS

IEA Project Number: 1196-605
IEA Sample Number: 9403586-01
Sample Identification: T1
Applicable Fraction: Volatile _____ Base/Neutral __X__ Acid ___ Other _____

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications.

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

TIC Compound Name	Estimated Concentration (ug/L)
1. Unknown Alcohol	200 B
2. Unknown	21
3. Substituted Cyclohexane	35
4. Unknown	19
5. Unknown	18
6. Unknown Alkane	17
7. Unknown	29
8. Substituted Phenol	45
9. Unknown Aromatic	20
10. Unknown	39

Comments:

B = Compounds in blank.

FORM TIC Rev. 120491

RECEIVED

APR 28 1994

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No:	1196-605(0) Revision 1		Date Sampled:	03-24-94
IEA Sample No:	9403588-01		Date Received:	03-25-94
Client Sample No:	PB 1		Date Extracted:	03-30-94
Client Project No:	R182011			

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil,kerosene,varsol)
Date Analyzed: 03-31-94 Analyzed by: Willey
Time Analyzed: 0703

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

==========

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 03-30-94 Analyzed by: Willey
Time Analyzed: 1359

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No:	1196-605(0)	Revision 1	Date Sampled:	03-24-94
IEA Sample No:	9403588-02		Date Received:	03-25-94
Client Sample No:	PB 2		Date Extracted:	03-30-94
Client Project No:	R182011			

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil,kerosene,varsol)
Date Analyzed: 03-31-94 Analyzed by: Willey
Time Analyzed: 1145

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

==========

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 03-30-94 Analyzed by: Willey
Time Analyzed: 1528

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:

IEA
An Aquarion Company

3000 WESTON PKWY.
CARY, N.C. 27513
PH # 919-677-0090
FAX # 919-677-0427

CHAIN OF CUSTODY RECORD

NO: 42267

REGULATORY CLASSIFICATION - PLEASE SPECIFY

☐ NPDES ☐ DRINKING WATER ☐ RCRA ☐ OTHER _____

Page 1 of 1

COMPANY: NSCI ENVIROMENTAL

PROJECT #: 1920/11

PROJECT NAME: FARTHING

SAMPLERS (SIGNATURE): Ashley W. Bedea

SAMPLE I.D.	DATE	TIME	COMP	GRAB	STATION LOCATION	# OF CONTAINERS	MATRIX SOIL	MATRIX WATER	625-10 PEAK BASE NEUTRAL	602	3030C	5030	3550
T1	3/24	1:00 PM		X		6		X	X	X	X		
B1	3/24	10:00 AM		X		2	X					X	X
B2	3/24	11:00 AM		X		2	X					X	X

IEA # 1196-605
1196-605-0

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
Susan Tysan	3/25/94	10:30	[signature]	3/25	10:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY	DATE	TIME
			[signature]	3/25/94	1115

IEA QUOTE NO.	IEA RUSH NO.
PROJECT MANAGER (PLEASE PRINT)	**P.O. NO.**
BRENT CHAMBERS	

REMARKS ON SAMPLE RECEIPT

☐ BOTTLE INTACT ☐ CUSTODY SEALS
☐ PRESERVED ☐ SEALS INTACT
☐ CHILLED ☐ SEE REMARKS

IEA REMARKS

FIELD REMARKS: UST TRUST FUND

Industrial & Environmental Analysts, Inc. (IEA)

IEA Project #: 1196-629
IEA Sample #: 9404180-01
Client Name: Ensci Corporation
Client Proj. I.D.: R182011
Sample I.D.: T2

Matrix: Water
Date Received: 04/07/94
Date Sampled: 04/04/94

Parameter	Method	Quantitation Limits	Results	Date Prepared	Date Analyzed	Analyst
T-Lead	EPA 239.2	0.010 mg/L	BQL	04/07/94	04/16/94	RM

Comments:

FORM RESP3 Rev. 030994

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE AROMATICS EPA 602 COMPOUND LIST

IEA Project Number:	1196-629	Date Received:	04/07/94
IEA Sample Number:	9404180-01	Date Sampled:	04/04/94
Client Name:	Ensci Corporation	Date Analyzed:	04/15/94
Client Project ID:	R182011	Analysis By:	Ware
Sample Identification:	T2	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

Additional Compounds:

9	tert-Butyl methyl ether	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 602 Rev. 020494

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS BASE/NEUTRAL EXTRACTABLES EPA 625 COMPOUND LIST

IEA Project Number:	1196-629		
IEA Sample Number:	9404180-01	Date Received:	04/07/94
Client Name:	Ensci Corporation	Date Sampled:	04/04/94
Client Project ID:	R182011	Date Extracted:	04/11/94
Sample Identification:	T2	Date Analyzed:	04/13/94
Matrix:	Water	Analysis By:	Morse
		Dilution Factor:	1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acenaphthene	10	BQL
2	Acenaphthylene	10	BQL
3	Anthracene	10	BQL
4	Benzo(a)anthracene	10	BQL
5	Benzo(a)pyrene	10	BQL
6	Benzo(b)fluoranthene	10	BQL
7	Benzo(g,h,i)perylene	10	BQL
8	Benzo(k)fluoranthene	10	BQL
9	bis(2-Chloroethoxy)methane	10	BQL
10	bis(2-Chloroethyl)ether	10	BQL
11	bis(2-Chloroisopropyl)ether	10	BQL
12	bis(2-Ethylhexyl)phthalate	10	BQL
13	4-Bromophenyl phenyl ether	10	BQL
14	Benzyl butyl phthalate	10	BQL
15	2-Chloronaphthalene	10	BQL
16	4-Chlorophenyl phenyl ether	10	BQL
17	Chrysene	10	BQL
18	Dibenzo(a,h)anthracene	10	BQL
19	1,2-Dichlorobenzene	10	BQL
20	1,3-Dichlorobenzene	10	BQL
21	1,4-Dichlorobenzene	10	BQL
22	3,3'-Dichlorobenzidine	10	BQL
23	Diethyl phthalate	10	BQL
24	Dimethyl phthalate	10	BQL
25	Di-n-butylphthalate	10	BQL
26	2,4-Dinitrotoluene	10	BQL
27	2,6-Dinitrotoluene	10	BQL
28	Di-n-octylphthalate	10	BQL
29	Fluoranthene	10	BQL
30	Fluorene	10	BQL
31	Hexachlorobenzene	10	BQL
32	Hexachlorobutadiene	10	BQL
33	Hexachlorocyclopentadiene	10	BQL
34	Hexachloroethane	10	BQL
35	Indeno(1,2,3-cd)pyrene	10	BQL
36	Isophorone	10	BQL
37	Naphthalene	10	BQL

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS BASE/NEUTRAL EXTRACTABLES EPA 625 COMPOUND LIST

IEA Project Number:	1196-629	Date Received:	04/07/94
IEA Sample Number:	9404180-01	Date Sampled:	04/04/94
Client Name:	Ensci Corporation	Date Extracted:	04/11/94
Client Project ID:	R182011	Date Analyzed:	04/13/94
Sample Identification:	T2	Analysis By:	Morse
Matrix:	Water	Dilution Factor:	1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Nitrobenzene	10	BQL
39	N-Nitroso-di-n-propylamine	10	BQL
40	N-Nitrosodiphenylamine	10	BQL
41	Phenanthrene	10	BQL
42	Pyrene	10	BQL
43	1,2,4-Trichlorobenzene	10	BQL
44	Benzidine	*	*
45	N-Nitrosodimethylamine	10	BQL

Comments:
*This compound is no longer provided as a normal target deliverable for Method 625. Please contact your account representative for further information.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)
TENTATIVELY IDENTIFIED COMPOUNDS

IEA Project Number: 1196-629
IEA Sample Number: 9404180-01
Sample Identification: T2
Applicable Fraction: Volatile _____ Base/Neutral __X__ Acid ___ Other _____

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications.

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

TIC Compound Name	Estimated Concentration (ug/L)
1. Unknown Alcohol	110 B

Comments:
B = Compounds in blank.

FORM TIC Rev. 120491

APPLIED ENVIRONMENTAL SERVICES INC.
8809 Runnig Oak Drive • Raleigh, NC 27613
Post Office Box 80275 • Raleigh, NC 27623-0275
919/787-8209 • FAX 919/881-8205

Laboratory Name: IEA
3000 WESTON PKWY.
CARY N.C. 27513

Report To:

Chain of Custody Record

Page 1 of 1

PROJECT # R182011
CLIENT #
PROJECT NAME Farthing
COLLECTED BY (Signature) Ashley V. Butler

LABORATORY PROJECT #
DATE REPORT DUE
VERBAL/FAX/HARDCOPY

FIELD SAMPLE ID	TURNAROUND IN DAYS	SAMPLE MATRIX	DATE COLLECTED	NO. OF CONTAINERS PER LOCATION	625 +10 PER	602+MTBE	3030C					REMARKS	LAB ID NO. (for lab use only)
T2		WATER	4/04/94	2	X							TIME: 12:30	
T2		WATER	4/04/94	3		X						TIME: 12:30	
T2		WATER	4/04/94	1			X					TIME: 12:30	
												IEA #1196-629	

REMARKS UST TRUST FUND

RELINQUISHED BY:	DATE	TIME
[signature]	4-7-94	10:30A

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[signature]	4/7	10:30									
[signature]	4/7/94	1430									

White/Laboratory Copy, Yellow/Accounting Copy, Pink/File Copy

State of North Carolina
Department of Environment,
Health and Natural Resources
Raleigh Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Boyce A. Hudson, Regional Manager

DEHNR

DIVISION OF ENVIRONMENTAL MANAGEMENT
June 24, 1994

Jim Farthing
821 Hillandale Road, Box 18-315
Durham, North Carolina 27705

Dear Mr. Farthing:

This office has received on May 9, 1994 the tank closure report for American Textiles Services, located at 800 Mangum Street, in Durham, N. C. without the appropriate seal from a licensed geologist (L.G.) or a professional engineer (P.E.).

This closure report is regarded as having no validity and will not be reviewed by the Groundwater Section staff. This report should be resubmitted with the proper seal and signature no later than fifteen days after receiving this letter or the Groundwater Section may cite the responsible party and licensed professional for improper notification.

Sincerely,

Jay Zimmerman, L.G.
Hydrogeological Regional Supervisor
Raleigh Regional Office

3800 Barrett Drive, Suite 101, Raleigh, North Carolina 27609 Telephone 919-571-4700 FAX 919-571-4718
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State of North Carolina
Department of Environment,
Health and Natural Resources
Raleigh Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Boyce A. Hudson, Regional Manager

DEHNR

Division of Environmental Management
August 11, 1994

Mr. Jim Farthing
1821 Hillandale Road
Durham, NC 27705

Subject: Review of Underground Storage Tank Closure Report
American Textiles Services
Durham, NC, Durham County

Dear Mr. Farthing:

The groundwater section of the Division of Environmental Management has reviewed the Underground Storage Tank (UST) closure report for the above facility. The report was received on May 9, 1994.

<u>Your closure report was missing the following information:</u>
* Confirmation of the final destination of any contaminated soils.

THEREFORE, you should provide the above information on or before <u>September 12, 1994</u>.

The following comments and recommendations are offered for any future closure reports submitted to the groundwater section of the Division of Environmental Management:
Closure reports should include:

SUBMISSION of the GW/UST-2, with information on the number, size and product in the UST system

MAPS: a base map (usually a topographic map) and a site map, which includes details about location of the site, including:

* North arrow;
* Adjacent streets and roads, highways with names and numbers;
* sewer lines and other conduits;
* tank(s), dispenser(s), and if applicable line locations;
* boring locations properly identified
* groundwater flow direction (when indicated by surface features such as streams or springs or from previous investigative work);
* distance to public water supply well(s);
* distance to private water supply well(s);

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* distance to surface waters.

SAMPLING PROCEDURES should include:
The number of samples analyzed should include:
sampling under each tank; each tank island; and every 20 feet of piping.
The location of the sample:
floor (include the proper number according to tank size); sidewall,(if necessary); and stockpiled soils (one composite sample for every 200 cubic yards of soil excavated)

The procedure used to collect the samples including: sampling device; tool decontamination; and preservation on ice.

PROPER ANALYTICAL PROCEDURES should include using the proper analysis for the type of fuel suspected of release. If any water is found in the excavation pit, a water sample should also be taken in lieu of the floor soil sample. The Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater details what procedures to use.

SAMPLING RESULTS should include:
The laboratory results and chain-of-custody forms; and Tabulated results of field screening including sample depths and types of sample.

DESTINATION of the following should be accompanied by verification or confirmation (such as manifests):
any contaminated soil; and tanks and contents.

OTHER INFORMATION should include:
Information on bedrock or groundwater intersection;
Information on the amount of soil excavated; the method of staging the soil for temporary storage; and plans for remediation.

If you have any questions, please contact me at 919/571-4700.

Sincerely,

Kate Burkett

Kate Burkett
Hydrogeological Technician

cc: David Lazzo, ENSCI Environmental, Inc.

ENSCI®
ENGINEERING GROUP, P.A.

RECEIVED
SEP 01 1994
DEHNR-RAL-RO

August 23, 1994

Ms. Kate Burkett
North Carolina Department of Environment,
Health and Natural Resources
Division of Environmental Management
3800 Barrett Drive
Suite 101
Raleigh, North Carolina 27609

Re: Tank Closure Report
American Textiles Services
Durham, NC, Durham County
EEG Project No. R182011

Dear Ms. Burkett:

This letter is written in response to your request (letter dated 8/11/94) for additional information regarding the UST closure report for the referenced site. The closure report stated that approximately 50 cubic yards of potentially contaminated soil were excavated from the former Stoddard solvent UST pit. The soil was stockpiled on site on plastic. To date the stockpiled soil has not been disposed.

It is intended for the stockpiled soil to be disposed of along with other potentially contaminated soil, approximately 12 cubic yards, which was excavated during the removal of three USTs formerly located inside the building. The closure report for the three other USTs is attached. All of the stockpiled soil will now be sampled for confirmatory lab analysis (per Trust Fund guidelines) prior to disposal. Confirmation of the final disposition of all stockpiled soils will be forthcoming. It is reasonable to expect proper disposal of the stockpiled soils to be completed within 30 days of this correspondence.

On behalf of my client, I appreciate your allowing us sufficient time to conclude these activities in accordance with DEM and Trust Fund guidelines. If you have any questions or comments regarding these issues, please call me at 919-787-8209.

Sincerely,

ENSCI ENGINEERING GROUP, P.A.

David W. Lazzo, E.I.T.
Project Engineer

cc: Jim Farthing

Post Office Box 80275
Raleigh, North Carolina 27623-0275
T (919) 787-8209
F (919) 881-8205

1108 Old Thomasville Road
High Point, North Carolina 27260
T (919) 833-7505
F (919) 882-7958

RECEIVED
SEP 01 1994
DEHNR-RAL RO

UST CLOSURE REPORT
American Textile Services
800 Mangum Street
Durham, Durham County, North Carolina

Prepared For

Jim Farthing

Prepared By

ENSCI ENVIRONMENTAL, INC.

NORTH CAROLINA
PROFESSIONAL
SEAL
12345
8/25/94
ENGINEER
GREGORY KEITH WESHAW

ENSCI Project No. R182011
August 25, 1994

Site Investigation Report For Permanent Closure of U.S.T.

FOR TANKS IN **NC**

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location. [SEE MAP ON REVERSE SIDE OF OWNER'S COPY (BLUE) FOR REGIONAL OFFICE ADDRESS].

Sate Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Please complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

Jim Farthing
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
1821 Hillandale Road, Box 18-315
Street Address
Durham
County
Durham, North Carolina 27705
City State Zip Code
919-383-8309
Area Code Telephone Number

II. Location of Tank(s)

American Textiles Services
Facility Name or Company
Facility ID # (if available)
800 Mangum Street
Street Address or State Road
Durham Durham
County City Zip Code
919-383-8309
Area Code Telephone Number

RECEIVED SEP 01 1994 DEHNR-RAL RO

III. Contact Person

	Name	Job Title	Telephone Number
	Jim Farthing	Owner	(919) 383-8309
Closure Contractor (Name)	ENSCI Environmental, P.O.Box 80275, Raleigh, NC 27623 (Address)		919 787-8209
Lab (Name)	EnviroTech Mid-Atlantic, 1861 Pratt Dr, Blacksburg, VA 24060 (Address)		703 231-3983

IV. U.S.T. Information / V. Excavation Condition / VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
T1	550	45½" x 76"	Stoddard Solvent		x	x		x	
T2	550	45½" x 76"	Stoddard Solvent		x	x		x	
T3	550	45½" x 76"	Stoddard Solvent		x		x	x	

See reverse side of blue copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

VII. Check List

Check the activities completed.

- [X] Contact local fire marshall
- [X] Notify DEM Regional Office before abandonment.
- [X] Drain & flush piping into tank.
- [X] Remove all product and residuals from tank
- [X] Excavate down to tank.
- [X] Clean and inspect tank.
- [X] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
- [X] Cap or plug all lines except the vent and fill lines.
- [X] Purge tank of all product & flammable vapors.
- [X] Cut one or more large holes in the tanks.
- [X] Backfill the area.

Date Tank Permanently closed: 07/12/94

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening;
- [ ] Plug or cap all openings;
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used - please specify: _____

REMOVAL

- [X] Create vent hole
- [X] Label tank
- [X] Dispose of tank in approved manner

Final tank destination: Local welding shop

VIII. Certification (Read and Sign)

ertify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached cuments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the bmitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
avid W. Lazzo - Project Engineer	David W. Lazzo	08/23/94

/UST-2 White Copy - Regional Office Yellow Copy - Central Office Blue Copy - Owner

UST CLOSURE REPORT

1. Ownership of Tank(s)

Jim Farthing
Owner Name (Corporation, Individual, Public Agency or Other Entity)

1821 Hillandale Road, Box 18-315
Street Address

Durham
County

Durham, North Carolina 27705
City State Zip Code

919-383-8309
Area Code Telephone Number

2. Location of Tank(s)

American Textiles Services
Facility Name or Company

Facility ID # (if available)

800 Mangum Street
Street Address or State Road

Durham Durham
County City Zip Code

919-383-8309
Area Code Telephone Number

3. Date of Closure July 12, 1994

4. Name(s) of EEG Personnel on site David Lazzo, Ashley Bethea, Joel Williams

5. Name(s) of excavation/other contractor personnel _____

6. Owner Contact Name: Jim Farthing

Address: 1821 Hillandale Road, Box 18-315

Phone No.: 919-383-8309

7. UST Information **8. Excavation Condition**

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
T1	550	45½" x 76"	Stoddard Solvent		x	x		x	
T2	550	45½" x 76"	Stoddard Solvent		x	x		x	
T3	550	45½" x 76"	Stoddard Solvent		x		x	x	

9. **UST Burial Depth (Base of UST)**

Tank No.	Burial Depth (ft.)
T1	4.5
T2	4.5
T3	4.5

10. **UST Condition**

Tank No.	Uncorroded	Mild Corrosion	Pitted	Perforated
T1				x
T2				x
T3				x

11. **Attach Site Map to include:**

- North Arrow
- Scale
- Adjacent roads/streets with names/route #'s
- Building(s)
- Subsurface conduits
- USTs, dispensers, product lines
- Sample locations (soil and water)
- Distance to adjacent/abutting water supply wells
- Distance to adjacent/abutting surface waters
- Location of stockpiled soil

12. Sampling (Indicate locations on Site Map)

Sample No.	Soil (S) or Water (W)	Depth Obtained (ft)	OVA Reading (ppm)	Submitted for Lab Analysis (Indicate Methods)
Pit 1-A	S	5.5	-	5030, 3550
Pit 1-B	S	5.5	-	5030, 3550
Pit 2-A	S	6	-	5030, 3550
Pit 2-B	S	6	-	5030, 3550

13. **Summarize Laboratory Results. Attach copy of Lab Report.**

Soil Sample Analysis American Textiles Services		
Sample ID	**5030 (ppm)**	**3550 (ppm)**
Pit 1-A	2,100	9,200
Pit 1-B	1,000	4,000
Pit 2-A	620	1,300
Pit 2-B	630	520

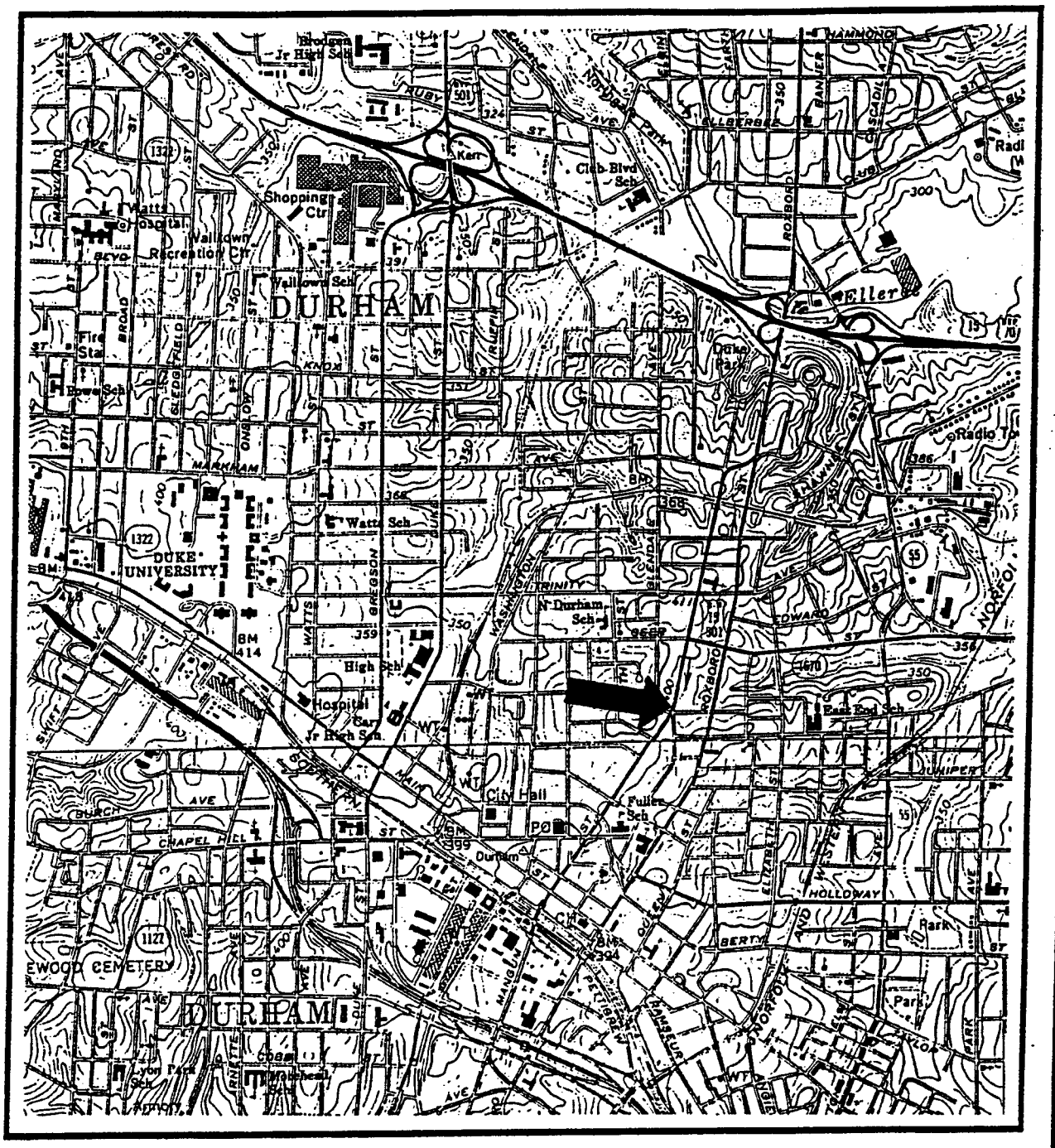
14. **Stockpiled Soil**

Estimated amount ____12____ cubic yards.

Final Disposition (if known) _____

Approximately 12 cubic yards of potentially contaminated soil were excavated and stockpiled on the concrete floor inside the building. The soil was excavated based on visible staining and notable odor. Final disposition of the soil is pending laboratory confirmation of contamination levels.

Figures



USGS 7.5 MINUTE SERIES TOPOGRAPHIC
NORTHWEST & SOUTHWEST DURHAM,
NC QUADRANGLE
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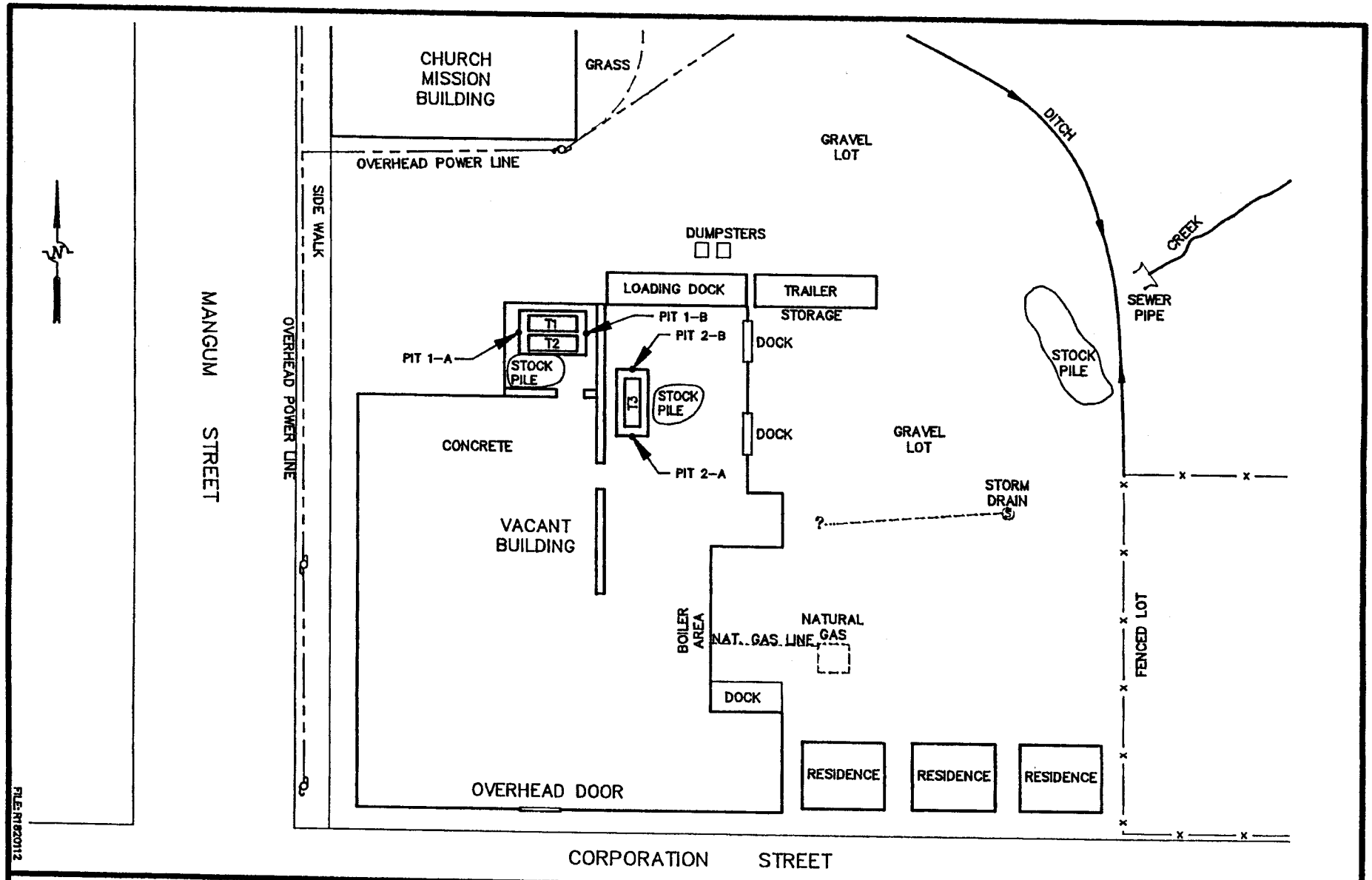
VICINITY MAP

800 MANGUM STREET

DURHAM COUNTY — DURHAM, NC

SCALE:	PROJECT NO.:	FIGURE NO.:
1" = 2000'	R182011	1



FILE:R182012

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SITE MAP

800 MANGUM STREET

DURHAM COUNTY **DURHAM ,NC**

SCALE:NOT TO SCALE	PROJECT NO.: R182011	FIGURE NO.: 2

Laboratory Results

EnviroTech Mid-Atlantic Laboratory
1861 Pratt Dr. • Blacksburg, VA 24060
(703) 231-3983 • Fax (703) 231-3984

RECEIVED
AUG 2 2 1994

August 12, 1994

Client: ENSCI Environmental, Inc.
Post Office Box 80275
Raleigh, NC 27623-0275

Attention: David Lazzo

Fax: 919-881-8205

Report #: 7750
Project: Farthing
P.O. #:

Date Received: 8/08/94
Project #: R182011

Sample Identification

Samples submitted and identified by client as:

Sample	Matrix	Field Identification	Date	Time Collected
7750A	Soil	Pit 1-A	8/05/94	12:00
7750B	Soil	Pit 1-B	8/05/94	12:00
7750C	Soil	Pit 2-A	8/05/94	12:00
7750D	Soil	Pit 2-B	8/05/94	12:00

All analyses were performed in accordance with EPA methods referenced in "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79 revised March 1983 and/or "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition.

Project: Farthing

ENVIROTECH MID-ATLANTIC
August 12, 1994

Analysis	D/L	7750A Pit 1-A	D/L	7750B Pit 1-B	D/L	7750C Pit 2-A	D/L	7750D Pit 2-B
TPH-GC (mg/kg) Varsol	500	9,200	200	4,000	100	1,300	10	520
TPFH (mg/kg)	100	2,100	50	1,000	100	620	50	630

Quality Control Data

Analysis	%STD	%Spike	%RD	EPA#	Analyst	Date Analyzed
TPH-GC	103	73	<1	3550M	C. Smith	8/11/94
TPFH				5030	T. McCoy	8/10/94
C Benzene		107	1.0			
Benzene		82	1.2			
Toluene		106	<1.0			

Elizabeth Smiley
Laboratory Director

D/L - Detection Limit **BDL - Below Detection Limit**

Soil results are reported on a dry weight basis unless otherwise noted.

*IMPORTANT: See back before completing form!

ENVIROTECH MID-ATLANTIC

EnviroTech Mid-Atlantic
1861 Pratt Drive
Blacksburg, Virginia 24060
Phone: (703) 231-3983 Fax: (703) 231-3984

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

6 **SPECIAL HANDLING**
-Normal turn around time is 7-10 working days
-Prior authorization required for rush projects

MARK ONE:
☐ Normal TAT
☐ 24-48 HOUR
☒ 3-5 DAY

1

Billing Client ENSCI - RALEIGH
Address
City, State, Zip Code
Phone Number Fax Number
Project Name and/or Number FARTHING R182011
Purchase or Work Order Number
Sampler Name (please print) D. Lazzo
Project Manager (please print) DAVID LAZZO

3 ANALYSIS REQUESTED

2

SAMPLE DESCRIPTION AND/OR LOCATION (see instructions on back)	# CONTAINERS	SAMPLE MATRIX: LIQUID	SOIL	OTHER	GRAB SAMPLE	COMP. SAMP.	SAMPLING INFORMATION: DATE	TIME	ETMA LAB NO.	TPH - ☐ 1R (418.1) ☒ GC (3550)	TPFH (5030)	TCLP ☐ Full ☐ Partial (Specify in Remarks)	EPA 601/8010	EPA 602/8020 ☐ BTEX-only	EPA 608/8080 ☐ PCB-only	EPA ☐ 624 ☐ 8240	EPA ☐ 625 ☐ 8270	ETMA UST PKG (Undergrd Storage Tank)	ETMA - Above Ground Spill Pkg	ETMA - Guaranteed Petroleum Pkg.	Total Metals - Please specify		Other Testing: Please Specify				
PIT 1 - A	1		X		X		8/5/94	1200	7750A	X	X																
PIT 1 - B	1		X		X		|	|	B	X	X																
PIT 2 - A	1		X		X		|	|	C	X	X																
PIT 2 - B	1		X		X		8/5/94	1200	D	X	X																

4

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME	RELINQUISHED BY	DATE	TIME
[signature]	8/5/94	1405	[signature]	8.5	1515			
RECEIVED BY	DATE	TIME	RELINQUISHED BY	DATE	TIME	RECEIVED IN LAB BY	DATE	TIME
						[signature]	8/8/94	10:05

5 REMARKS (to include any special information pertinent to samples to be analyzed and/or billing) Rec'd at ambient temp.

NC TRUST FUND NOTE TAT

ENSCI®
ENVIRONMENTAL, INC.

RECEIVED
SEP 28 1994
RALEIGH

September 26, 1994

Mr. Jay Zimmerman
North Carolina Department of
Environment, Health and Natural Resources
Division of Environmental Management
3800 Barrett Dr.
Raleigh, NC 27609

Re: 15A NCAC, 2N, .0703 Initial Abatement Measures and Site Check Report & .0704 Initial Site Characterization
800 Mangum Street
Durham, North Carolina
ENSCI Project No. R182011

Dear Mr. Zimmerman:

Please find enclosed information pertaining to Release Response and Corrective Action for UST Systems as outlined in 15A, NCAC Subchapter 2N, .0703, .0704. This document will serve to satisfy the above referenced reporting requirements for the subject property in Durham County (see Figure 1). ENSCI Environmental, Inc, (ENSCI) has been contracted to provide these services on behalf of Mr. Jim Farthing. The information is presented below in an outline form to facilitate communication.

<u>15A NCAC 2N .0703 - Initial Abatement Measures and Site Check</u>

(a)(1) No further release of a regulated substance is believed to be occurring to the environment because the USTs have been removed.

[illegible] Old Thomas [illegible] Road
High Point, North Carolina 27260
T(919) [illegible]
F(919) [illegible]

Post Office Box 80275
Raleigh, North Carolina 27623-0275
T(919) 787-8209
F(919) 881-[illegible]

(a)(2) Visual evidence of an above ground release associated with the subject USTs was not detected during a site inspection conducted by ENSCI.

Visual inspection for an exposed below ground release was conducted at the time of tank closure. Evidence of an exposed below ground release was detected by the presence of a slight skim of product floating on top of ground water during excavation of the USTs. All excavations which were undertaken at the site to unearth and extract the USTs have been backfilled with a clean #57 stone. No exposure or human health hazards by vapors or human contact are thought to exist.

(a)(3) Subsurface utilities and structures at the site consist of water lines, and storm and sanitary sewer pipes. All exposed openings associated with these structures (valve boxes, inlets, and grate openings) were inspected with use of a Organic Vapor Analyzer (OVA) to determine if explosive conditions or volatile organic vapors exist. No explosive conditions or organic vapors were detected above background levels in the structures. Power and telephone lines are above groundwater.

(a)(4) The petroleum impacted soils generated in the process of the UST removal are currently stockpiled on site on plastic sheeting and covered according to NCDEHNR-DEM protocol.

(a)(5) According to the data obtained by ENSCI Environmental during the UST removal, ground water was encountered in the tank pits. Groundwater samples were procured from the tank pits in order to satisfy UST closure requirements. During transport, the ground water sample containers were broken, thereby making re-sampling necessary. Because the excavations were backfilled with stone, it was not possible to obtain samples in the original excavation. Therefore, new ground water samples were collected through hand auger borings ("borings" Figure 2) located beside each former tank excavation. The water samples were procured from the hand auger borings using a single disposable bailer and placed into approved ground water sample containers. Soil samples were collected along the diesel UST product line by advancing two hand auger borings (PB1 and PB2) during the tank closure. All samples were chilled on ice for transport to a certified laboratory. Groundwater samples were analyzed EPA Method 602 expanded to include Methyl Tert Butyl-Ether, and EPA Method 625. The samples were also analyzed for total lead employing sample extraction Method 3030C. Soil samples from PB1 and PB2 were analyzed for total petroleum hydrocarbons per EPA Methods 5030 and 3550. Chain of Custody protocol was followed while handling samples. Table 1 summarizes sample descriptions and analytical methods.

(a)(6) A slight skim/sheen of free product was noted during tank removal activities. However, no free product was noted during the hand auguring event used to procure water samples for analysis.

15A NCAC 2N .0704 - Initial Site Characterization

(a)(1) One (1) 8,000 gallon, one (1) 10,000 gallon USTs were removed from the site during the excavation. The USTs were situated in separate excavations (see Figure 2). The following table summarizes the size and product type for each UST.

UST SPECIFICATIONS			
I.D.	Dimensions	Gallons	Product
T1	8' X 21'-4"	8,000	Stoddard Solvent
T2	16' X 10'-6"	10,000	Diesel Fuel

(a)(2) The facility is located at 800 Mangum Street in Durham, Durham County. The population of Durham County is 193,850. Municipal water is supplied to the site and its surrounding properties. To our knowledge there are no potable wells within a 1,500 foot radius of the subject property. Subsurface lithologies recognized at the site are characterized as a arkosic sand, medium to coarse grained, to a slightly clayey medium grained sand. Ground water was encountered at a depth approximating 9 feet.

(a)(2) Subsurface utilities and structures at the site consist of underground conduits associated with public utilities. Land usage in the site is mainly light commercial and residential. Mean annual temperature in the Durham area is 59 degrees Fahrenheit. Precipitation averages 47 inches per year.

(a)(3) Results of the site check and initial characterization indicate that a release of petroleum products has impacted ground water at the site. This conclusion is based upon the analytical results generated from closure of the USTs.

The laboratory results (see Table 2) from groundwater sampling on March 24, 1994 indicate that ground water has been impacted in the area of Tank 1, which is the Stoddard Solvent tank bed. Groundwater samples from near the pit formerly containing Tank 2, which contained diesel fuel, had no compounds detected by EPA Methods 602, 625, or 239.2 (lead). Analyses of soil samples produced from the hand augured soil borings

reported no compounds detected by EPA methods 5030, or 3550 in borings labeled PB1, and PB2. Please see Figure 2 for sample locations.

(a)(4) An immeasurable skim of free product was noted at the site in the tank bed that contained T2.

Please contact Mr. Brent Chambers of ENSCI Environmental at 919-787-8209 if you have any questions or concerns.

Sincerely,

ENSCI ENVIRONMENTAL, INC.

Gordon Williford
Staff Geologist

LM George
Lawrence M. George, P.G.
Project Geologist/Project Team Leader

NORTH CAROLINA LICENSED SEAL 1163 GEOLOGIST LAWRENCE MATTHEW GEORGE

cc: Mr. Jim Farthing

TABLES

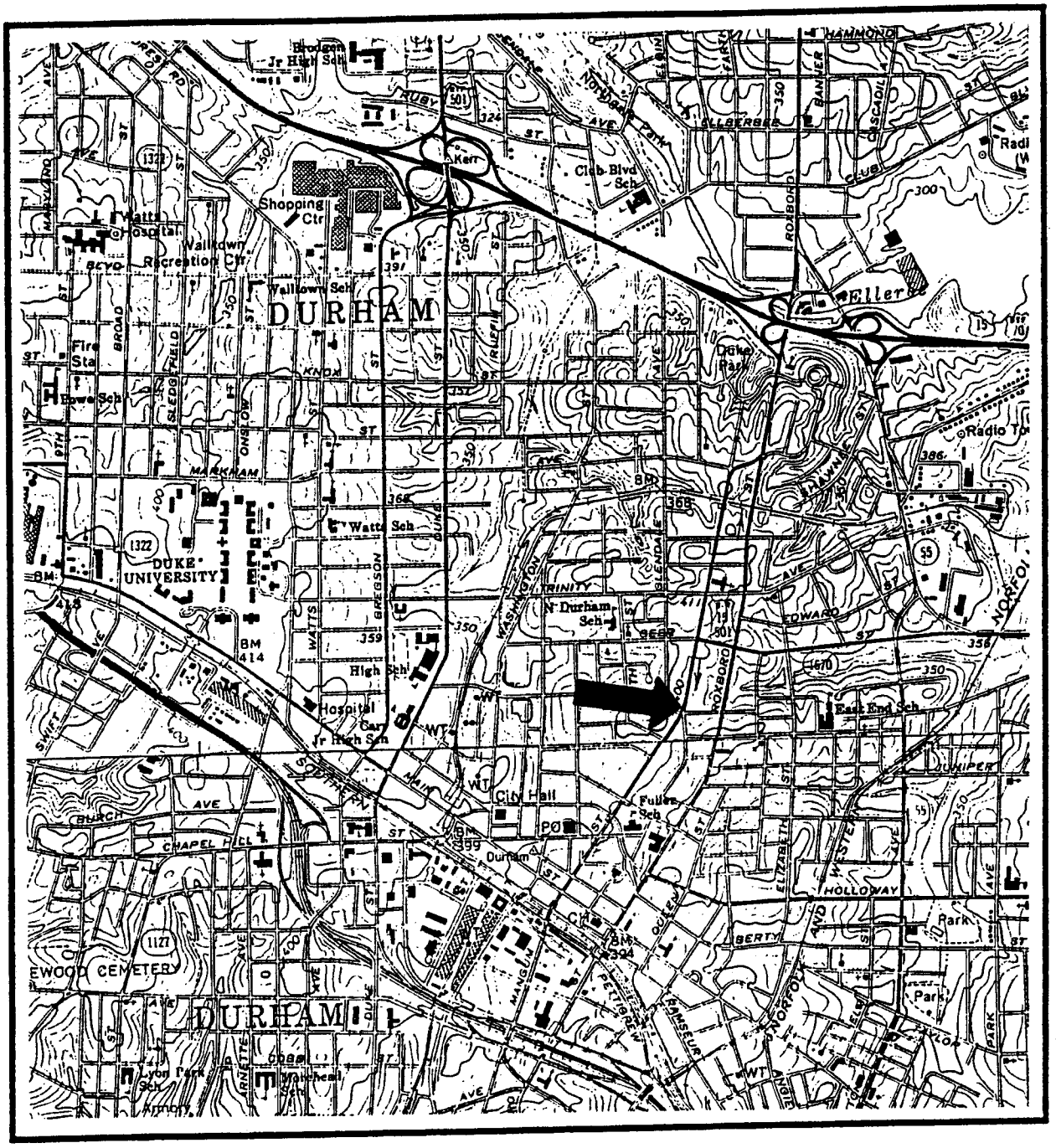
TABLE 1				
Sample No.	**Soil (S) or Water (W)**	**Depth Obtained (ft)**	**OVA Reading (ppm)**	**Submitted for Lab Analysis (Indicate Methods)**
T2	W	9'		625 B/N w/TIC
T2	W	9'		602 + MTBE
T2	W	9'		EPA 239.2 (lead)
T1	W	13'		625 B/N w/TIC
T1	W	13'		602
T1	W	13'		EPA 239.2 (lead)
PB1	S	3'		3550
PB1	S	3'		5030
PB2	S	3'		3550
PB2	S	3'		5030

Table 2
FARTHING TANK CLOSURE
SAMPLE ANALYSES

Description	Analyte	Results (ppb)
Sample Location: T1 Sample Date: 3/24/94	Benzene	1
	Ethylbenzene	26
	Xylenes	74
	Acenaphthene	30
	Anthracene	22
	Benzo(a)fluoranthene	28
	Benzo(a)pyrene	30
	Benzo(b)flouranthene	28
	Benzo(g,h,i)perylene	20
	Benzo(k)fluoranthene	26
	Chrysene	31
	Fluoranthene	71
	Fluorene	28
	Indeno (1,2,3-cd)pyrene	21
	Phenanthrene	94
	Pyrene	52
	TIC	243*
	Lead	0.13 ppm
Sample Location: T2 Sample Date: 4/4/94	No compounds detected by methods 602, 625, or lead	-
Sample Location: PB1 Sample Date: 3/24/94	No compounds detected by methods 5030 or 3550	-
Sample Location: PB2 Sample Date: 3/24/94	No compounds detected by methods 5030 or 3550	-

Note: Results shown for detectable compounds only. See lab report for complete listing of analytes.
ppb - parts per billion
ppm - parts per million
TIC - tentatively identified compounds - results show total concentration of 10 TIC's. See lab report listing of compounds.

FIGURES



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NORTHWEST & SOUTHWEST DURHAM,
NC QUADRANGLE
PHOTOREVISED 1987

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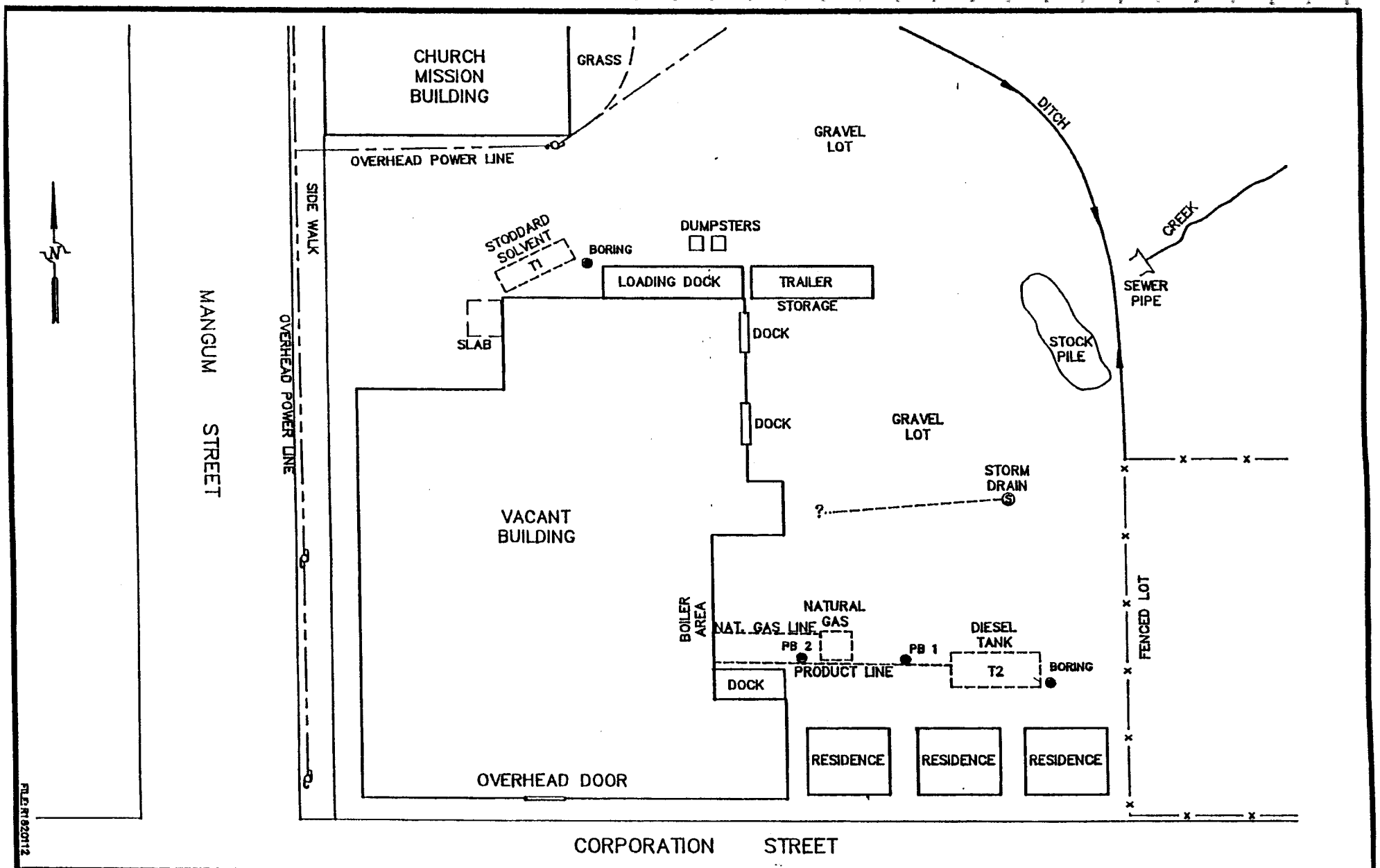
VICINITY MAP

800 MANGUM STREET

DURHAM COUNTY — DURHAM, NC

SCALE:	PROJECT NO.:	FIGURE NO.:
1" = 2000'	R182011	1



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SITE MAP

800 MANGUM STREET

DURHAM COUNTY DURHAM ,NC

SCALE:NOT TO SCALE	PROJECT NO.: R182011	FIGURE NO.: 2

LABORATORY REPORTS

Industrial & Environmental Analysts, Inc. (IEA)

EA Project #: 1196-605
A Sample #: 9403586-01
Client Name: Ensci Corporation
Client Proj. I.D.: R182011
Sample I.D.: T1

Matrix: Water
Date Received: 03/25/94
Date Sampled: 03/24/94

Parameter	Method	Quantitation Limits	Results	Date Prepared	Date Analyzed	Analyst
Lead	EPA 239.2	0.010 mg/L	0.13 mg/L	03/25/94	03/28/94	RM

Comments:

RM RESP3 Rev. 030994

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE AROMATICS EPA 602 COMPOUND LIST

IEA Project Number:	1196-605	Date Received:	03/25/94
IEA Sample Number:	9403586-01	Date Sampled:	03/24/94
Client Name:	Ensci Corporation	Date Analyzed:	04/04/94
Client Project ID:	R182011	Analysis By:	Ware
Sample Identification:	T1	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	1
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	26
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	74

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit
Surrogate recovery exceeds method criteria due to suspected sample matrix interference.

FORM 602 Rev. 020494

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS BASE/NEUTRAL EXTRACTABLES EPA 625 COMPOUND LIST

IEA Project Number:	1196-605		
IEA Sample Number:	9403586-01	Date Received:	03/25/94
Client Name:	Ensci Corporation	Date Sampled:	03/24/94
Client Project ID:	R182011	Date Extracted:	03/29/94
Sample Identification:	T1	Date Analyzed:	04/06/94
Matrix:	Water	Analysis By:	Gregory
		Dilution Factor:	2.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acenaphthene	10	30
2	Acenaphthylene	10	BQL
3	Anthracene	10	22
4	Benzo(a)anthracene	10	28
5	Benzo(a)pyrene	10	30
6	Benzo(b)fluoranthene	10	28
7	Benzo(g,h,i)perylene	10	20
8	Benzo(k)fluoranthene	10	26
9	bis(2-Chloroethoxy)methane	10	BQL
10	bis(2-Chloroethyl)ether	10	BQL
11	bis(2-Chloroisopropyl)ether	10	BQL
12	bis(2-Ethylhexyl)phthalate	10	BQL
13	4-Bromophenyl phenyl ether	10	BQL
14	Benzyl butyl phthalate	10	BQL
15	2-Chloronaphthalene	10	BQL
16	4-Chlorophenyl phenyl ether	10	BQL
17	Chrysene	10	31
18	Dibenzo(a,h)anthracene	10	BQL
19	1,2-Dichlorobenzene	10	BQL
20	1,3-Dichlorobenzene	10	BQL
21	1,4-Dichlorobenzene	10	BQL
22	3,3'-Dichlorobenzidine	10	BQL
23	Diethyl phthalate	10	BQL
24	Dimethyl phthalate	10	BQL
25	Di-n-butylphthalate	10	BQL
26	2,4-Dinitrotoluene	10	BQL
27	2,6-Dinitrotoluene	10	BQL
28	Di-n-octylphthalate	10	BQL
29	Fluoranthene	10	71
30	Fluorene	10	28
31	Hexachlorobenzene	10	BQL
32	Hexachlorobutadiene	10	BQL
33	Hexachlorocyclopentadiene	10	BQL
34	Hexachloroethane	10	BQL
35	Indeno(1,2,3-cd)pyrene	10	21
36	Isophorone	10	BQL
37	Naphthalene	10	BQL

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS BASE/NEUTRAL EXTRACTABLES EPA 625 COMPOUND LIST

IEA Project Number:	1196-605		
IEA Sample Number:	9403586-01	Date Received:	03/25/94
Client Name:	Ensci Corporation	Date Sampled:	03/24/94
Client Project ID:	R182011	Date Extracted:	03/29/94
Sample Identification:	T1	Date Analyzed:	04/06/94
Matrix:	Water	Analysis By:	Gregory
		Dilution Factor:	2.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Nitrobenzene	10	BQL
39	N-Nitroso-di-n-propylamine	10	BQL
40	N-Nitrosodiphenylamine	10	BQL
41	Phenanthrene	10	94
42	Pyrene	10	52
43	1,2,4-Trichlorobenzene	10	BQL
44	Benzidine	*	*
45	N-Nitrosodimethylamine	10	BQL

Comments:
*This compound is no longer provided as a normal target deliverable for Method 625. Please contact your account representative for further information.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit
Quantition limit elevated due to extract dilution prior to analysis.
Extract diluted due to high concentration of target compounds present.
Surrogate recovery outside method specified criteria.
Analysis of associated sample spike confirmed low surrogate recovery due to suspected sample matrix interference.

Industrial & Environmental Analysts, Inc. (IEA)
TENTATIVELY IDENTIFIED COMPOUNDS

IEA Project Number: 1196-605
IEA Sample Number: 9403586-01
Sample Identification: T1
Applicable Fraction: Volatile _____ Base/Neutral __X__ Acid ___ Other _____

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications.

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

TIC Compound Name	Estimated Concentration (ug/L)
1. Unknown Alcohol	200 B
2. Unknown	21
3. Substituted Cyclohexane	35
4. Unknown	19
5. Unknown	18
6. Unknown Alkane	17
7. Unknown	29
8. Substituted Phenol	45
9. Unknown Aromatic	20
10. Unknown	39

Comments:

B = Compounds in blank.

FORM TIC Rev. 120491

RECEIVED

APR 28 1994

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No: 1196-605(0) Revision 1

IEA Sample No: 9403588-01

Client Sample No: PB 1

Client Project No: R182011

Date Sampled: 03-24-94

Date Received: 03-25-94

Date Extracted: 03-30-94

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil,kerosene,varsol)
Date Analyzed: 03-31-94
Time Analyzed: 0703
Analyzed by: Willey

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

==========

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 03-30-94
Time Analyzed: 1359
Analyzed by: Willey

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project No:	1196-605(0) Revision 1	Date Sampled:	03-24-94
IEA Sample No:	9403588-02	Date Received:	03-25-94
Client Sample No:	PB 2	Date Extracted:	03-30-94
Client Project No:	R182011		

Extraction (SW 846 - 3550) / GC-FID analysis (for #2 fuel oil,kerosene,varsol)
Date Analyzed: 03-31-94 Analyzed by: Willey
Time Analyzed: 1145

The sample does not contain a petroleum hydrocarbon blend in the distillation range referenced above. The quantitation limit is 2.0 mg/kg.

Comment:

==========

Purge and Trap (SW 846 - 5030) / GC-FID analysis (for gasoline only)
Date Analyzed: 03-30-94 Analyzed by: Willey
Time Analyzed: 1528

The sample does not contain a petroleum hydrocarbon blend with a distillation range similar to gasoline. The quantitation limit is 2.0 mg/kg.

Comment:

CHAIN OF CUSTODY RECORD

IEA
An Aquarion Company
3000 WESTON PKWY.
CARY, N.C. 27513
PH # 919-677-0090
FAX # 919-677-0427

NO: 42267

REGULATORY CLASSIFICATION - PLEASE SPECIFY

☐ NPDES ☐ DRINKING WATER ☐ RCRA ☐ OTHER _____

Page 1 of 1

COMPANY: SCI ENVIROMENTAL

PROJECT #: 2011

PROJECT NAME: FARTHING

SAMPLERS (SIGNATURE): [illegible] W. Bidea

SAMPLE NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	# OF CONTAINERS	MATRIX SOIL	MATRIX WATER	625-10 PEAK BASE NEUTRAL	602	3030C	5030	3550								
1	3/24	1:00 PM		X		6		X	X	X	X										
1	3/24	10:00 AM		X		2	X					X	X								
2	3/24	11:00 AM		X		2	X					X	X								

REQUESTED PARAMETERS

IEA # 1196-605
1196-605-0

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME	IEA QUOTE NO.	IEA RUSH NO.
[illegible]	3/25/94	10:30	[illegible]	3/25	10:30		
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY**	**DATE**	**TIME**	**PROJECT MANAGER (PLEASE PRINT)**	**P.O. NO.**
			[illegible]	3/25/94	1115	BRENT CHAMBERS	

REMARKS ON SAMPLE RECEIPT

BOTTLE INTACT ☐ CUSTODY SEALS
PRESERVED ☐ SEALS INTACT
CHILLED ☐ SEE REMARKS

IEA REMARKS

FIELD REMARKS: UST TRUST FUND

Industrial & Environmental Analysts, Inc. (IEA)

IEA Project #: 1196-629
IEA Sample #: 9404180-01
Client Name: Ensci Corporation
Client Proj. I.D.: R182011
Sample I.D.: T2

Matrix: Water
Date Received: 04/07/94
Date Sampled: 04/04/94

Parameter	Method	Quantitation Limits	Results	Date Prepared	Date Analyzed	Analyst
E-Lead	EPA 239.2	0.010 mg/L	BQL	04/07/94	04/16/94	RM

Comments:

FORM RESP3 Rev. 030994

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE AROMATICS EPA 602 COMPOUND LIST

IEA Project Number:	1196-629	Date Received:	04/07/94
IEA Sample Number:	9404180-01	Date Sampled:	04/04/94
Client Name:	Ensci Corporation	Date Analyzed:	04/15/94
Client Project ID:	R182011	Analysis By:	Ware
Sample Identification:	T2	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

Additional Compounds:

9	tert-Butyl methyl ether	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 602 Rev. 020494

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS BASE/NEUTRAL EXTRACTABLES EPA 625 COMPOUND LIST

IEA Project Number:	1196-629		
IEA Sample Number:	9404180-01	Date Received:	04/07/94
Client Name:	Ensci Corporation	Date Sampled:	04/04/94
Client Project ID:	R182011	Date Extracted:	04/11/94
Sample Identification:	T2	Date Analyzed:	04/13/94
Matrix:	Water	Analysis By:	Morse
		Dilution Factor:	1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acenaphthene	10	BQL
2	Acenaphthylene	10	BQL
3	Anthracene	10	BQL
4	Benzo(a)anthracene	10	BQL
5	Benzo(a)pyrene	10	BQL
6	Benzo(b)fluoranthene	10	BQL
7	Benzo(g,h,i)perylene	10	BQL
8	Benzo(k)fluoranthene	10	BQL
9	bis(2-Chloroethoxy)methane	10	BQL
10	bis(2-Chloroethyl)ether	10	BQL
11	bis(2-Chloroisopropyl)ether	10	BQL
12	bis(2-Ethylhexyl)phthalate	10	BQL
13	4-Bromophenyl phenyl ether	10	BQL
14	Benzyl butyl phthalate	10	BQL
15	2-Chloronaphthalene	10	BQL
16	4-Chlorophenyl phenyl ether	10	BQL
17	Chrysene	10	BQL
18	Dibenzo(a,h)anthracene	10	BQL
19	1,2-Dichlorobenzene	10	BQL
20	1,3-Dichlorobenzene	10	BQL
21	1,4-Dichlorobenzene	10	BQL
22	3,3'-Dichlorobenzidine	10	BQL
23	Diethyl phthalate	10	BQL
24	Dimethyl phthalate	10	BQL
25	Di-n-butylphthalate	10	BQL
26	2,4-Dinitrotoluene	10	BQL
27	2,6-Dinitrotoluene	10	BQL
28	Di-n-octylphthalate	10	BQL
29	Fluoranthene	10	BQL
30	Fluorene	10	BQL
31	Hexachlorobenzene	10	BQL
32	Hexachlorobutadiene	10	BQL
33	Hexachlorocyclopentadiene	10	BQL
34	Hexachloroethane	10	BQL
35	Indeno(1,2,3-cd)pyrene	10	BQL
36	Isophorone	10	BQL
37	Naphthalene	10	BQL

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS BASE/NEUTRAL EXTRACTABLES EPA 625 COMPOUND LIST

IEA Project Number:	1196-629	Date Received:	04/07/94
IEA Sample Number:	9404180-01	Date Sampled:	04/04/94
Client Name:	Ensci Corporation	Date Extracted:	04/11/94
Client Project ID:	R182011	Date Analyzed:	04/13/94
Sample Identification:	T2	Analysis By:	Morse
Matrix:	Water	Dilution Factor:	1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Nitrobenzene	10	BQL
39	N-Nitroso-di-n-propylamine	10	BQL
40	N-Nitrosodiphenylamine	10	BQL
41	Phenanthrene	10	BQL
42	Pyrene	10	BQL
43	1,2,4-Trichlorobenzene	10	BQL
44	Benzidine	*	*
45	N-Nitrosodimethylamine	10	BQL

Comments:
*This compound is no longer provided as a normal target deliverable for Method 625. Please contact your account representative for further information.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)
TENTATIVELY IDENTIFIED COMPOUNDS

IEA Project Number: 1196-629
IEA Sample Number: 9404180-01
Sample Identification: T2
Applicable Fraction: Volatile _____ Base/Neutral __X__ Acid ___ Other _____

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications.

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

TIC Compound Name	Estimated Concentration (ug/L)
1. Unknown Alcohol	110 B

Comments:
B = Compounds in blank.

FORM TIC Rev. 120491

APPLIED ENVIRONMENTAL SERVICES INC.
8809 Runnig Oak Drive • Raleigh, NC 27613
Post Office Box 80275 • Raleigh, NC 27623-0275
919/787-8209 • FAX 919/881-8205

Laboratory Name: IEH
3000 WESTON PKWY.
CARY N.C. 27513

Report To:

Chain of Custody Record

Page 1 of 1

PROJECT # R182011
CLIENT #
PROJECT NAME Farthing
COLLECTED BY (Signature) Ashley V. Butler

LABORATORY PROJECT #
DATE REPORT DUE
VERBAL/FAX/HARDCOPY

FIELD SAMPLE ID	TURNAROUND IN DAYS	SAMPLE MATRIX	DATE COLLECTED	NO. OF CONTAINERS PER LOCATION	ANALYSES: 625+10 PEAK	602+MTBE	3030C					REMARKS	LAB ID NO. (for lab use only)
T2		WATER	4/04/94	2	X							TIME: 12:30	
T2		WATER	4/04/94	3		X						TIME: 12:30	
T2		WATER	4/04/94	1			X					TIME: 12:30	
												IEA #1196-629	

REMARKS UST TRUST FUND

RELINQUISHED BY:	DATE	TIME
[signature]	4-7-94	10:30

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[signature]	4/7	10:30									
[signature]	4/7/94	0930									

White/Laboratory Copy, Yellow/Accounting Copy, Pink/File Copy

ENSCI®
ENVIRONMENTAL, INC.

RECEIVED
SEP 28 1994
RALEIGH REGIONAL

September 27, 1994

Mr. Jay Zimmerman
North Carolina Department of
Environment, Health, and Natural Resources
Division of Environmental Management
3800 Barrett Drive
Raleigh, NC 27609

Re: 15A NCAC, 2N, .0703 Initial Abatement Measures and Site Check Report & .0704-.0705 Initial Site Characterization, Free product removal reports
Three 550 gallon stoddard solvent tanks
800 Mangum Street
Durham, North Carolina
ENSCI Project No. R182011

Dear Mr. Zimmerman:

Please find enclosed information pertaining to Release Response and Corrective Action for UST Systems as outlined in 15A, NCAC Subchapter 2N, .0703-.0705. This report pertains to three 550 gallon stoddard solvent tanks removed from the site on July 15, 1994. A "20 and 45 day" report pertaining to one 8,000 gallon stoddard solvent and one 10,000 gallon Diesel USTs has previously been submitted. This document will serve to satisfy the above referenced reporting requirements for the subject property in Durham County (see Figure 1). ENSCI Environmental, Inc, (ENSCI) has been contracted to provide these services on behalf of Mr. Jim Farthing. The information is presented below in an outline form to facilitate communication.

<u>15A NCAC 2N .0703 - Initial Abatement Measures and Site Check</u>

(a)(1) On July 15, 1994 three 550 gallon stoddard solvent tanks were permanently closed through excavation and removal. No further release of fuel is believed to be occurring at the site by virtue of removal of the UST systems.

(a)(2) Visual evidence of an above ground release associated with the subject USTs was not detected during a site inspection conducted by ENSCI.

[illegible] Road
[illegible] North Carolina 27260
T [illegible]
F [illegible]

Post Office Box 80275
Raleigh, North Carolina 27623-0275
T(919) 787 8209
F(919) 831 8205

Visual inspection for an exposed below ground release was conducted at the time of tank closure. Evidence of an exposed below ground release was detected by the presence of a small quantity (1-2 gallons) of product on the bottom of the excavation during removal of the USTs by ENSCI personnel.

The excavations have remained open, however, they are located within the building where they are not exposed to weather conditions. Furthermore, the building is no longer in use and the excavations are barricaded, therefore, the pits pose no safety hazards. No exposure or human health hazards by vapors or human contact are thought to exist due to the low volatility of the stoddard solvent and the fact that the facility is large in size and is well ventilated through ceiling openings and window drafts.

(a)(3) Subsurface utilities and structures at the site consist of water lines, above-ground power and telephone lines, and storm and sanitary sewer pipes. All exposed openings associated with these structures (valve boxes, inlets, and grate openings) were inspected with use of a Organic Vapor Analyzer (OVA) to determine if explosive conditions or volatile organic vapors exist. No explosive conditions or organic vapors were detected above background levels in the structures.

(a)(4) The petroleum impacted soils generated in the process of the UST removal are currently stockpiled on site on plastic sheeting and located inside the building. Although not covered, the stockpile is not thought to cause any hazards to due to previously mentioned conditions at the facility.

(a)(5) Soil samples were collected at the bottom of the excavations according to NCDEHNR-DEM UST closure sampling protocol. The samples were obtained using a decontaminated hand auger and were placed into approved soil sample containers. All samples were chilled on ice for transport to a certified laboratory for analysis of total petroleum hydrocarbons per EPA Methods 5030, and 3550. Chain of Custody protocol was followed while handling samples.

(a)(6) According to the data obtained by ENSCI Environmental during the UST removal, ground water was not encountered in the tank pits. A small quantity of product was noted on the surface of the bottom of the excavation formerly containing T1 and T2 (see Figure 2). The product was recovered with the excavation of the suspected contaminated soil from the bottom of the excavation. No additional free product was observed to enter the excavation upon completion of excavation operations.

15A NCAC 2N .0704 - Initial Site Characterization

(a)(1) Three (3) 550 gallon USTs were removed from the site during the excavation. The location of the USTs (T1-T3) are shown in Figure 2. The following table summarizes the size and product type for each UST.

UST SPECIFICATIONS			
I.D.	Dimensions	Gallons	Product
T1	451/2" X 76"	550	Stoddard Solvent
T2	451/2" X 76"	550	Stoddard Solvent
T3	45 1/2" X 76"	550	Stoddard Solvent

The nature of the suspected release to soils is Petroleum Hydrocarbons as stoddard solvent.

(a)(2) The facility is located at 800 Mangum Street in Durham, Durham County. The population of Durham County is 193,850.

Municipal water is supplied to the site and its surrounding properties. To our knowledge there are no potable wells within a 1,500 foot radius of the subject property.

Subsurface lithologies recognized at the site are characterized as a medium to coarse grained arkosic sand, to a slightly clayey medium grained sand. Ground water was encountered at a depth approximating 9 feet during excavation and removal of other UST systems on the property by ENSCI. As mentioned previously, ground water was not discovered in the subject UST excavations.

Subsurface utilities and structures at the site consist of underground conduits associated with public utilities. Land usage in the site vicinity is mainly light commercial and residential. Mean annual temperature in the Durham area is 59 degrees Fahrenheit. Precipitation averages 47 inches per year.

(a)(3) Results of the site check and initial characterization indicate that a release of petroleum products has impacted soils surrounding the tank pits at the site. This conclusion is based upon the analytical results generated from closure of the USTs. Extent of soil

contamination and possible impact of the contamination on ground water will be determined in subsequent assessment activities.

The laboratory results from soil sampling from the UST closure on August 5, 1994 indicate that the soil has been impacted in the areas of both tank pits containing the stoddard solvent. Soil samples procured during the removal of the three USTs analyzed using EPA Methods 5030 and 3550 indicate levels that exceed state standards. Concentrations ranged from 620-2,100 ppm low boiling point total petroleum hydrocarbons and 520-9,200 ppm high boiling point total petroleum hydrocarbons. Please see Figure 2 for sample locations. The complete laboratory reports are attached.

(a)(4) Free product (1-2 gallons) discovered in the bottom of the pit containing tanks T1 and T2 was removed with excavated soils. No additional free product was observed to enter the excavation upon completion of excavation operations.

<u>15A NCAC 2N .0705- Free Product Removal</u>

(d)(1) Mr. Jim Farthing is responsible for implementing the free product removal measures.

(d)(2) The estimated quantity of free product that was present in the excavation is one to two gallons. The type of product present was stoddard solvent.

(d)(3) A free product recovery system has currently not been installed at the subject facility. The visible product was excavated during tank removal and stockpiled with soil from the excavation on plastic sheeting. No additional free product was observed to enter the excavation after completing excavation operations.

(d)(4) N/A

(d)(5) N/A

(d)(6) N/A

(d)(7) The free product along with soil excavated from the USTs removal will be disposed of according to NCDEHNR-DEM guidelines at a proper disposal facility.

Please contact Mr. Brent Chambers of ENSCI Environmental if you have any questions or concerns, at 919-787-8209.

Sincerely,

ENSCI ENVIRONMENTAL, INC.

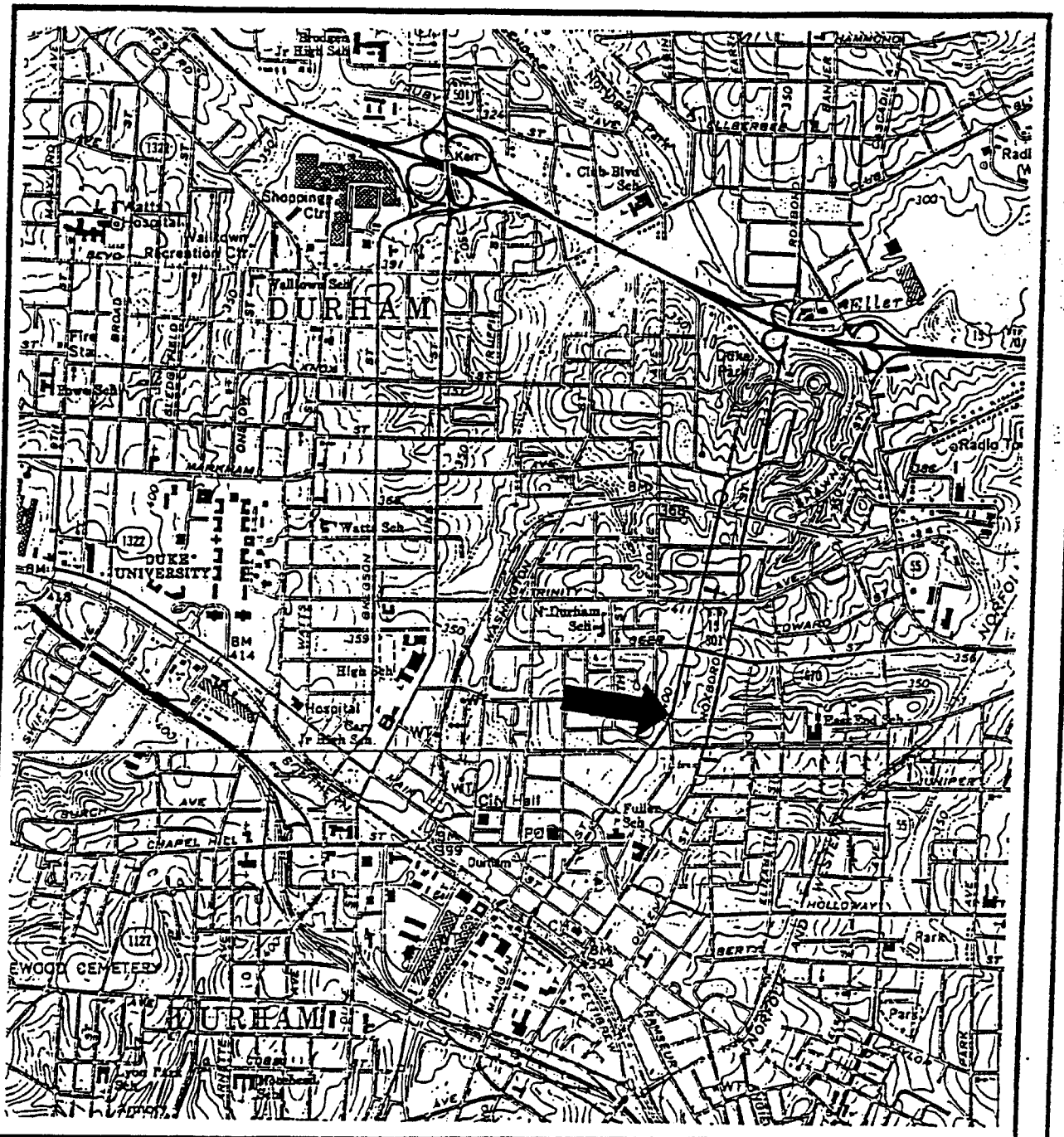
Gordon Williford
Staff Geologist

Lawrence M. George, P.G.
Project Geologist/Project Team Leader

NORTH CAROLINA LICENSED SEAL 1163 GEOLOGIST LAWRENCE MATTHEW GEORGE

cc: Mr. Jim Farthing

FIGURES



USGS 7.5 MINUTE SERIES TOPOGRAPHIC
NORTHWEST & SOUTHWEST DURHAM,
NC QUADRANGLE
PHOTOREVISED 1987

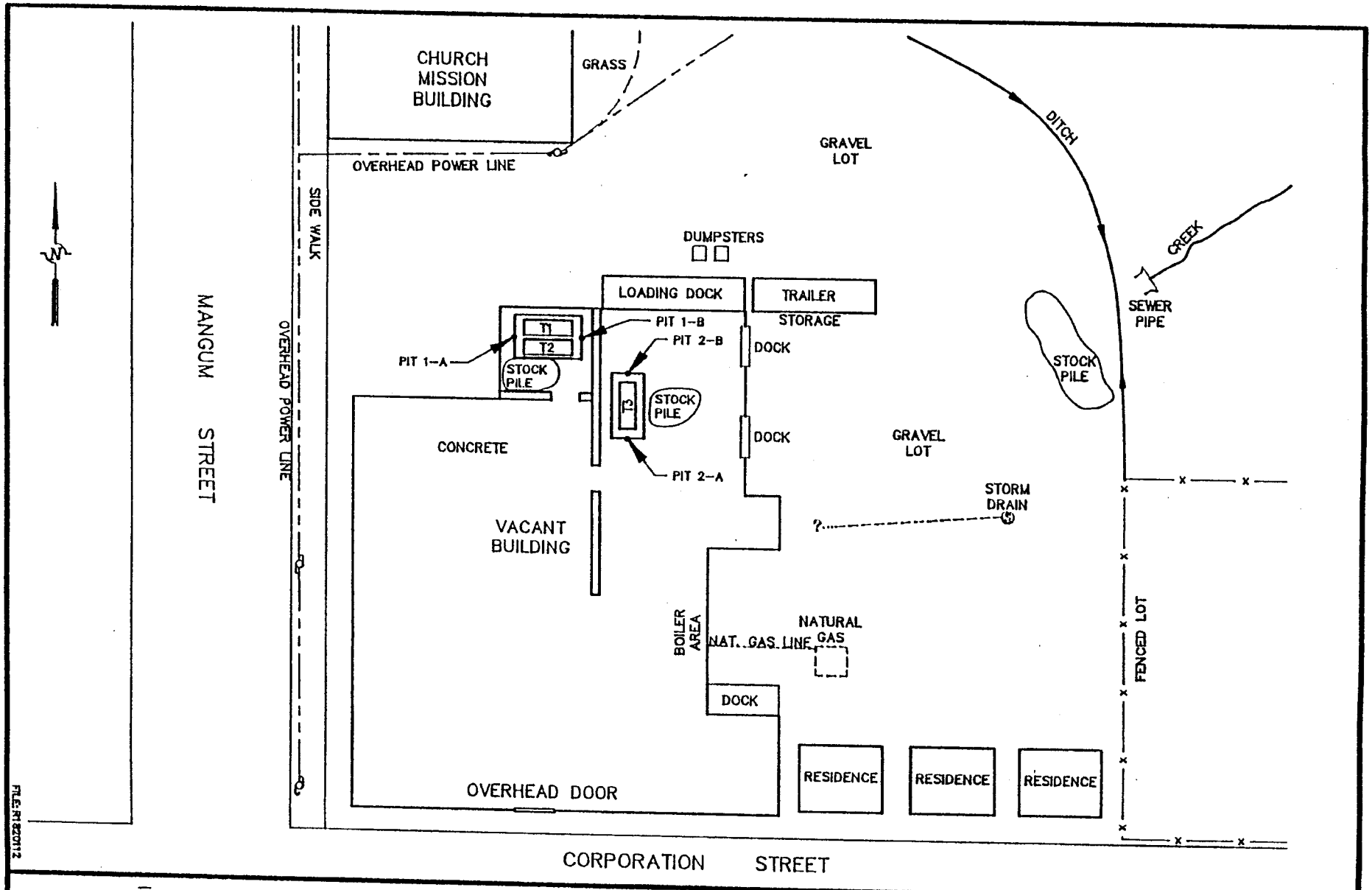
ENSCI®
ENGINEERING GROUP P.A.

VICINITY MAP

800 MANGUM STREET

DURHAM COUNTY — DURHAM, NC

SCALE:	PROJECT NO.:	FIGURE NO.:
1" = 2000'	R182011	1



ENSCI®
ENGINEERING GROUP P.A.

SITE MAP

800 MANGUM STREET

DURHAM COUNTY **DURHAM ,NC**

SCALE:NOT TO SCALE	PROJECT NO.: R182011	FIGURE NO.: 2

Laboratory Results

EnviroTech Mid-Atlantic Laboratory
1861 Pratt Dr. • Blacksburg, VA 24060
(703) 231-3983 • Fax (703) 231-3984

RECEIVED
AUG 22 1994

August 12, 1994

Client: ENSCI Environmental, Inc.
Post Office Box 80275
Raleigh, NC 27623-0275

Attention: David Lazzo

Fax: 919-881-8205

Report #: 7750
Project: Farthing
P.O. #:

Date Received: 8/08/94
Project #: R182011
Page 1 of 2

Sample Identification

Samples submitted and identified by client as:

Sample	Matrix	Field Identification	Date	Time Collected
7750A	Soil	Pit 1-A	8/05/94	12:00
7750B	Soil	Pit 1-B	8/05/94	12:00
7750C	Soil	Pit 2-A	8/05/94	12:00
7750D	Soil	Pit 2-B	8/05/94	12:00

All analyses were performed in accordance with EPA methods referenced in "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79 revised March 1983 and/or "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition.

Project: Farthing

ENVIROTECH MID-ATLANTIC
August 12, 1994

Analysis	D/L	7750A Pit 1-A	D/L	7750B Pit 1-B	D/L	7750C Pit 2-A	D/L	7750D Pit 2-B
TPH-GC (mg/kg) Varsol	500	9,200	200	4,000	100	1,300	10	520
TPFH (mg/kg)	100	2,100	50	1,000	100	620	50	630

Quality Control Data

Analysis	%STD	%Spike	%RD	EPA#	Analyst	Date Analyzed
TPH-GC	103	73	<1	3550M	C. Smith	8/11/94
TPFH				5030	T. McCoy	8/10/94
C Benzene		107	1.0			
Benzene		82	1.2			
Toluene		106	<1.0			

Elizabeth Smiley
Laboratory Director

D/L - Detection Limit BDL - Below Detection Limit

Soil results are reported on a dry weight basis unless otherwise noted.

MPORTANT: See back before completing form!

ENVIROTECH MID-ATLANTIC

EnviroTech Mid-Atlantic
1861 Pratt Drive
Blacksburg, Virginia 24060
Phone: (703) 231-3983 Fax: (703) 231-3984

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

6 **SPECIAL HANDLING**
-Normal turn around time is 7-10 working days
-Prior authorization required for rush projects

MARK ONE:
- ☐ Normal TAT
- ☐ 24-48 HOUR
- ☒ 3-5 DAY

1

Billing Client: ENSCI - RALEIGH
Address:
City, State, Zip Code:
Phone Number: Fax Number:
Project Name and/or Number: FARTHING R182011
Purchase or Work Order Number:
Sampler Name (please print): D. Lazzo
Project Manager (please print): DAVID LAZZO

3 ANALYSIS REQUESTED

SAMPLE DESCRIPTION AND/OR LOCATION (see Instructions on back)	# CONTAINERS	SAMPLE MATRIX: LIQUID	SAMPLE MATRIX: SOIL	SAMPLE MATRIX: OTHER	GRAB SAMPLE	COMP. SAMP.	SAMPLING INFORMATION: DATE	SAMPLING INFORMATION: TIME	ETMA LAB NO.	TPH - ☐ 1R (418.1) ☒ GC (3550)	TPH (5030)	TCLP ☐ Full ☐ Partial (Specify in Remarks)	EPA 601/8010	EPA 602/8020 ☐ BTEX-only	EPA 608/8080 ☐ PCB-only	EPA ☐ 624 ☐ 8240	EPA ☐ 625 ☐ 8270	ETMA UST PKG (Undergrd Storage Tank)	ETMA - Above Ground Spill Pkg	ETMA - Guaranteed Petroleum Pkg.	Total Metals - Please specify		Other Testing: Please Specify				
PIT 1 - A	1		X		X		8/5/94	1200	7150A	X	X																
PIT 1 - B	1		X		X				B	X	X																
PIT 2 - A	1		X		X				C	X	X																
PIT 2 - B	1		X		X		8/5/94	1200	D	X	X																

4

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME	RELINQUISHED BY	DATE	TIME
RECEIVED BY	8/5/94	1405	RELINQUISHED BY	8/5	1515	RECEIVED IN LAB BY	8/8/94	10:05
	DATE	TIME		DATE	TIME		DATE	TIME

5 REMARKS (to include any special information pertinent to samples to be analyzed and/or billing) Rush turnaround time

NC TRUST FUND NOTE TAT

O'BRIEN & GERE
TECHNICAL SERVICES

March 21, 1995

Mr. Jim Farthing
Farthing Rentals
1821 Hillandal Road
Box 18-315
Durham, NC 277005

Re: Excavation and Removal Services

Subj: Proposal

File: Prospective

Dear Mr. Farthing:

O'Brien & Gere Technical Services, Inc, (OBG TECH) is pleased to provide Farthing Rentals with our proposal for the removal of impacted soil from a historical stoddard solvent release at your facility in Durham, North Carolina. Based upon our site visit and O'Brien & Gere Engineers site investigation it is estimated that up to 50 cubic yards may require removal.

The following is our understanding of the scope of work:

REMOVAL OF CONCRETE, EXCAVATION AND RELOCATION OF IMPACTED SOILS:

OBG TECH proposes to sawcut, jackhammer and remove six (6) inches of concrete in Area 1 and Area 2 as shown on the attached drawing. The concrete will be excavated from the existing areas, loaded onto dump trucks and disposed as hard fill. We will then remove and relocate on site up to 50 cubic yards of impacted soils. The soils will be spread out and additives injected as necessary. Prior to mobilizing on site, the underground utilities will have been checked, marked and cleared by the local underground utility protection authority. It is assumed a bobcat with an excavator attachment or similar piece of equipment will be suitable to preform the excavation activities. OBG TECH has scheduled up to three days to complete this work. It is our understanding O'Brien & Gere Engineers will be providing confirmatory soil sampling of the excavation under a separate contract.

BACKFILL AND RESTORATION ACTIVITIES:

Once it has been confirmed that the excavation has met the required cleanup criteria, the excavation will be backfilled. The site will be backfilled with bank-run-gravel compacted in 12" lifts and brought to within four (4) inches of the surface. The disturbed areas will then be restored with 3000 psi concrete with wire mesh and given a broom finish.

O'BRIEN & GERE TECHNICAL SERVICES, INC. an O'Brien & Gere Company
5000 Brittonfield Parkway P.O. Box 5240 / Syracuse, New York 13220 / (315) 437-6400 FAX (315) 437-9800
... and offices in major U.S. cities.

OBG Tech will provide labor and equipment only for the above activities. All materials with the exception of concrete will be supplied by others. (ie:backfill material and soil additives) OBG Tech will assist in the coordination of material purchases.

The costs to perform the scope of work as described is:

Total Cost: **$9,925**

Should there be a need to utilize individuals or equipment for additional work, the costs will be invoiced on a time and material basis with a 15% markup.

The above work will be coordinated through Jerome Hall of our Raleigh, North Carolina office. If you should have any questions upon your review, please do not hesitate to contact Jerome Hall or me. We look forward to working on this project with your firm.

If you are in agreement with the above scope of work, please indicate by signing below. Execution of this letter will provide O'Brien & Gere Technical Services, Inc. authorization to proceed.

Very truly yours,

O'BRIEN & GERE TECHNICAL SERVICES, INC.

Brian T. Dixon
Project Supervisor

BTD/jlw
Attachments

FARTHING RENTALS, INC.

Authorized Representative

Date

cc: Ron Crowson - O'Brien & Gere Engineers, Inc.
Robert Cheesman - O'Brien & Gere Technical Services, Inc.
Gary M. McCullen - O'Brien & Gere Technical Services, Inc.
Jerome Hall - O'Brien & Gere Technical Services, Inc.

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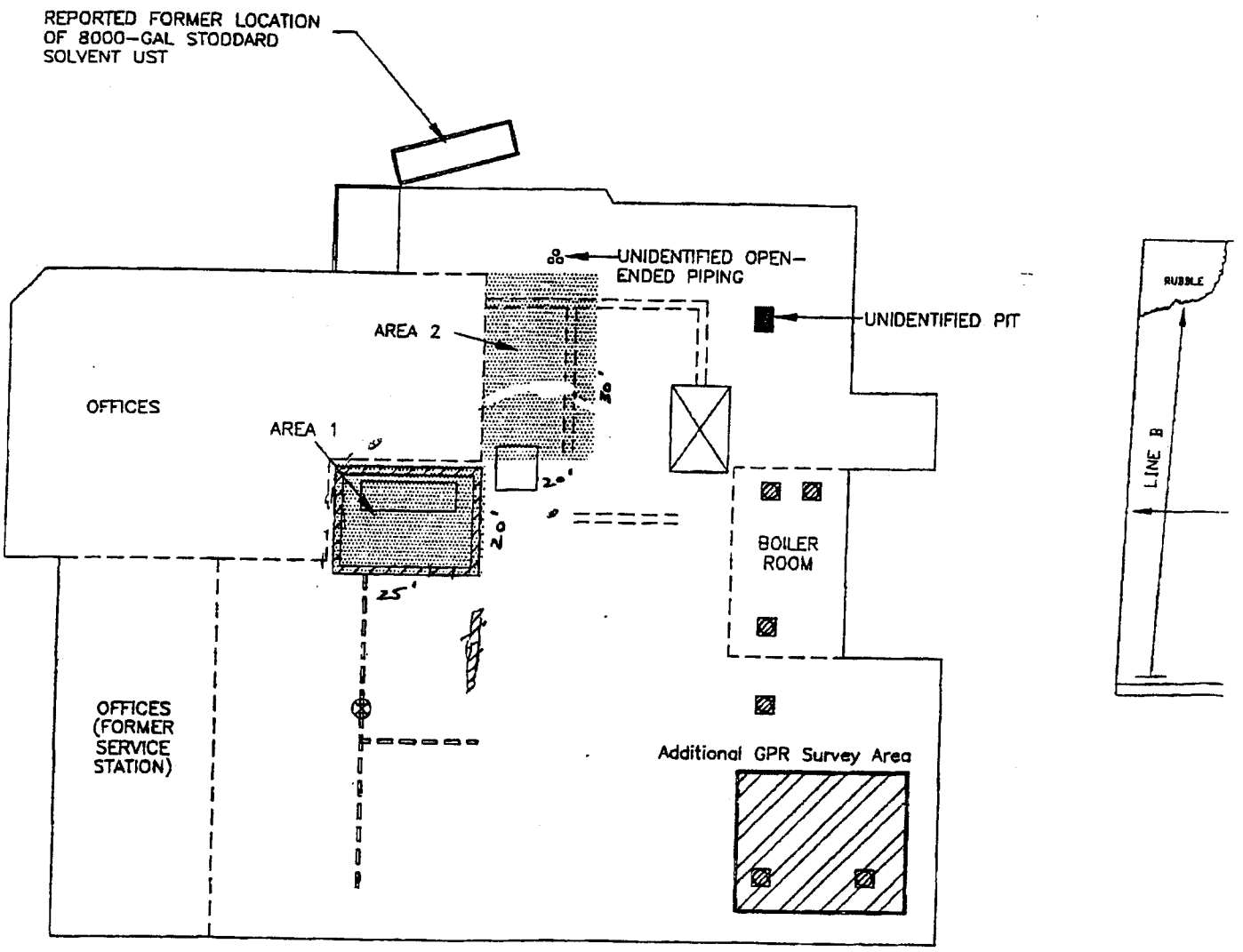


N

FARTHING BUILDING Durham, NC

Dry Cleaning Facility

NOT TO SCALE

Bldg. is closed down and Equip. has been Removed.

O'BRIEN & GERE
ENGINEERS, INC.

RECEIVED
MAY 2 1995
DEHNR RALEIGH REGIONAL OFFICE

May 2, 1995

Mr. Phillip Orozco
NCDEM Groundwater Division
Raleigh Regional Office
Raleigh, North Carolina

Dear Mr. Orozco:

Attached is a copy of soil analysis for TPH by Method 8015 for soil removed from a former UST site at the Farthing Property. Previous investigations ENSCI indicated elevated concentrations of stoddard solvent in the soil at this site. Subsequent soil sampling by O'Brien & Gere confirmed the presence of petroleum constituents in the soil. An analysis of water from a monitoring well located in the center of the soil contamination indicates no petroleum constituents are present in the groundwater. The attached soil analysis are provided in support of our request to landfarm approximately 45 yards of contaminated soil within a fenced area approximately 150 feet by 100 feet in area.

Please give me a call if you need additional information concerning the above. Please send a copy of the signed landfarming permit to my attention at O'Brien & Gere.

Very truly yours,

Ronald A. Crowson, P.G

O'Brien & Gere Engineers, Inc., an O'Brien & Gere Company
One Copley Parkway / Suite 309 / P.O. Box 80308 / Raleigh, NC 27623 / (919) 469-0099 FAX (919) 469-9967
. . . and offices in major U.S. cities

Post Office Box 12846
Research Triangle Park, NC 27709

Phone 919·677·0090
Fax 919·677·0427

IEA
An Aquarion Company

Arpil 17, 1995

RECEIVED
APR 19 1995
O'BRIEN & GERE
RALEIGH

A. J. Ramsey
O'Brien & Gere
1 Copley Pkwy
Morrisville, NC 27560

RECEIVED
MAY 2 1995
DENR RALEIGH REGIONAL OFFICE

IEA Project No.: 1024050T/9504278
IEA Reference No.: W9504239
Client Project I.D.: CBG. TECH. (FARTHING)

Dear Mr. Ramsey,

Transmitted herewith are the results of analyses on four samples submitted to our laboratory.

The sample(s) were received intact.

Analyses were performed according to approved methodologies and meet the requirements of the IEA Quality Assurance Program except where noted. Please see the enclosed reports for your results and a copy of the Chain of Custody documentation.

Thank you for selecting IEA for your sample analysis. Please do not hesitate to call your project manager representative at 1-919-677-0090 or 1-800-444-9919 should you have any questions regarding this report. We look forward to serving you in the future.

Very truly yours,

IEA, Inc.

Braxton C. Bass

William R. Drago
Laboratory Director

IEA
An Aquarion Company

IEA-NORTH CAROLINA CERTIFICATIONS

Certifying State	Program Type	Lab ID #
Alabama	DW	40210
California	DW, WW, HW Radiolog.	I-1035,1768 I-1018 (Rad)
Connecticut	DW, WW	PH-0135
Florida	DW WW (CompQAP)	87350 E87439 QAP#930007G
Georgia	DW	None
Kansas	DW, HW, WW	E-158 (DW, WW) E-1189 (HW)
Kentucky	DW	90049
Massachusetts	DW, WW	M-NC039
New Jersey	DW, WW Radiolog.	67719 67681
New York	Radiolog.	11422
North Carolina	DW WW Radiolog.	DW 37720 WW 84 Rad 37720
South Carolina	DW WW HW	99021
Tennessee	DW UST App List	02914
Utah	Radiolog. RCRA	E-206 E-226
Virginia	DW	00179
West Virginia	DW	9908C
Wisconsin	WW	998051010

DW=Drinking Water WW=Wastewater HW=Hazardous Waste Radiolog.=Radiological

Rev2.01/95

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project Number:	1024-050T	Date Received:	N/A
IEA Sample Number:	9504278	Date Sampled:	N/A
Client Name:	O'Brien & Gere	Date Extracted:	04/13/95
Client Project ID:	OBG TECH. (FARTHING)	Date Analyzed:	04/14/95
Sample Identification:	QC Blank (PHCB802)	Time Analyzed:	0147
Matrix:	Solid	Analysis By:	Eurillo

Number	Distillation Range	Quantitation Limit (mg/kg)	Results Concentration (mg/kg)
1	#2 Fuel Oil	10	BQL
2	Kerosene	10	BQL
3	Varsol	10	BQL

Comments:
The quantitation limits have been adjusted for any dilution factors.
BQL = Below Quantitation Limit
N/A = Not Applicable
Corresponding Samples: 9504278-01 through -04

FORM TPHEXTS Rev. 033095

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project Number:	1024-050T	Date Received:	04/12/95
IEA Sample Number:	9504278-01	Date Sampled:	04/12/95
Client Name:	O'Brien & Gere	Date Extracted:	04/13/95
Client Project ID:	OBG TECH. (FARTHING)	Date Analyzed:	04/14/95
Sample Identification:	B-1	Time Analyzed:	0312
Matrix:	Soil	Analysis By:	Eurillo

Number	Distillation Range	Quantitation Limit (mg/kg)	Results Concentration (mg/kg)
1	#2 Fuel Oil	10	BQL
2	Kerosene	10	21 *
3	Varsol	10	BQL

Comments:
The quantitation limits have been adjusted for any dilution factors.
BQL = Below Quantitation Limit
* Peak pattern more closely resembles that of gasoline.

FORM TPHEXTS Rev. 033095

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project Number:	1024-050T	Date Received:	04/12/95
IEA Sample Number:	9504278-02	Date Sampled:	04/12/95
Client Name:	O'Brien & Gere	Date Extracted:	04/13/95
Client Project ID:	OBG TECH. (FARTHING)	Date Analyzed:	04/14/95
Sample Identification:	B-2	Time Analyzed:	0354
Matrix:	Soil	Analysis By:	Eurillo

Number	Distillation Range	Quantitation Limit (mg/kg)	Results Concentration (mg/kg)
1	#2 Fuel Oil	100	BQL
2	Kerosene	100	530 *
3	Varsol	100	BQL

Comments:
The quantitation limits have been adjusted for any dilution factors.
BQL = Below Quantitation Limit
Quantitation limit elevated due to extract dilution prior to analysis.
Extract diluted due to the presence of target compounds.
* Peak pattern more closely resembles that of gasoline.

FORM TPHEXTS Rev. 033095

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project Number:	1024-050T	Date Received:	04/12/95
IEA Sample Number:	9504278-03	Date Sampled:	04/12/95
Client Name:	O'Brien & Gere	Date Extracted:	04/13/95
Client Project ID:	OBG TECH. (FARTHING)	Date Analyzed:	04/14/95
Sample Identification:	B-3	Time Analyzed:	0437
Matrix:	Soil	Analysis By:	Eurillo

Number	Distillation Range	Quantitation Limit (mg/kg)	Results Concentration (mg/kg)
1	#2 Fuel Oil	200	BQL
2	Kerosene	200	310 *
3	Varsol	200	BQL

Comments:
The quantitation limits have been adjusted for any dilution factors.
BQL = Below Quantitation Limit
Quantitation limit elevated due to extract dilution prior to analysis.
Extract diluted due to the presence of target compounds.
* Peak pattern more closely resembles that of gasoline.

FORM TPHEXTS Rev. 033095

Industrial & Environmental Analysts, Inc. (IEA)
Total Petroleum Hydrocarbon Analysis
Method 8015M

IEA Project Number:	1024-050T	Date Received:	04/12/95
IEA Sample Number:	9504278-04	Date Sampled:	04/12/95
Client Name:	O'Brien & Gere	Date Extracted:	04/13/95
Client Project ID:	OBG TECH. (FARTHING)	Date Analyzed:	04/14/95
Sample Identification:	B-4	Time Analyzed:	0926
Matrix:	Soil	Analysis By:	Eurillo

Number	Distillation Range	Quantitation Limit (mg/kg)	Results Concentration (mg/kg)
1	#2 Fuel Oil	100	BQL
2	Kerosene	100	380 *
3	Varsol	100	BQL

Comments:
The quantitation limits have been adjusted for any dilution factors.
BQL = Below Quantitation Limit
Quantitation limit elevated due to extract dilution prior to analysis.
Extract diluted due to the presence of target compounds.
* Peak pattern more closely resembles that of gasoline.

FORM TPHEXTS Rev. 033095

IEA
An Aquarion Company

3000 WESTON PKWY.
CARY, N.C. 27513
PH # 919-677-0090
FAX # 919-677-0427

CHAIN OF CUSTODY RECORD

NO. 59261

REGULATORY CLASSIFICATION - PLEASE SPECIFY

☐ NPDES ☐ DRINKING WATER ☐ RCRA ☑ OTHER _____

COMPANY: O'Brien & Gere

Page 1 of 1

PROJECT #:

PROJECT NAME: OBG Tech. (Farthing)

SAMPLERS: (SIGNATURE) Daniel S. Willis

SAMPLE ID	DATE	TIME			SAMPLING LOCATION	# OF CONTAINERS	MATRIX SOIL	MATRIX WATER	TPH-GC												
B-1	4/12/95	13:45		✓	B-1	1	✓		✓												
B-2	↓	14:00		✓	B-2	1	✓		✓												
B-3		15:00		✓	B-3	1	✓		✓												
B-4		15:45		✓	B-4	1	✓		✓												

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
Bill [illegible]	4/11/95	1040	Daniel S. Willis	4/11/95	
Daniel S. Willis	4/12/95	18:10	D. McCamb	4-12-95	1810

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY	DATE	TIME

IEA QUOTE NO.:

IEA RUSH NO.:

PROJECT MANAGER (PLEASE PRINT):

P.O. NO.:

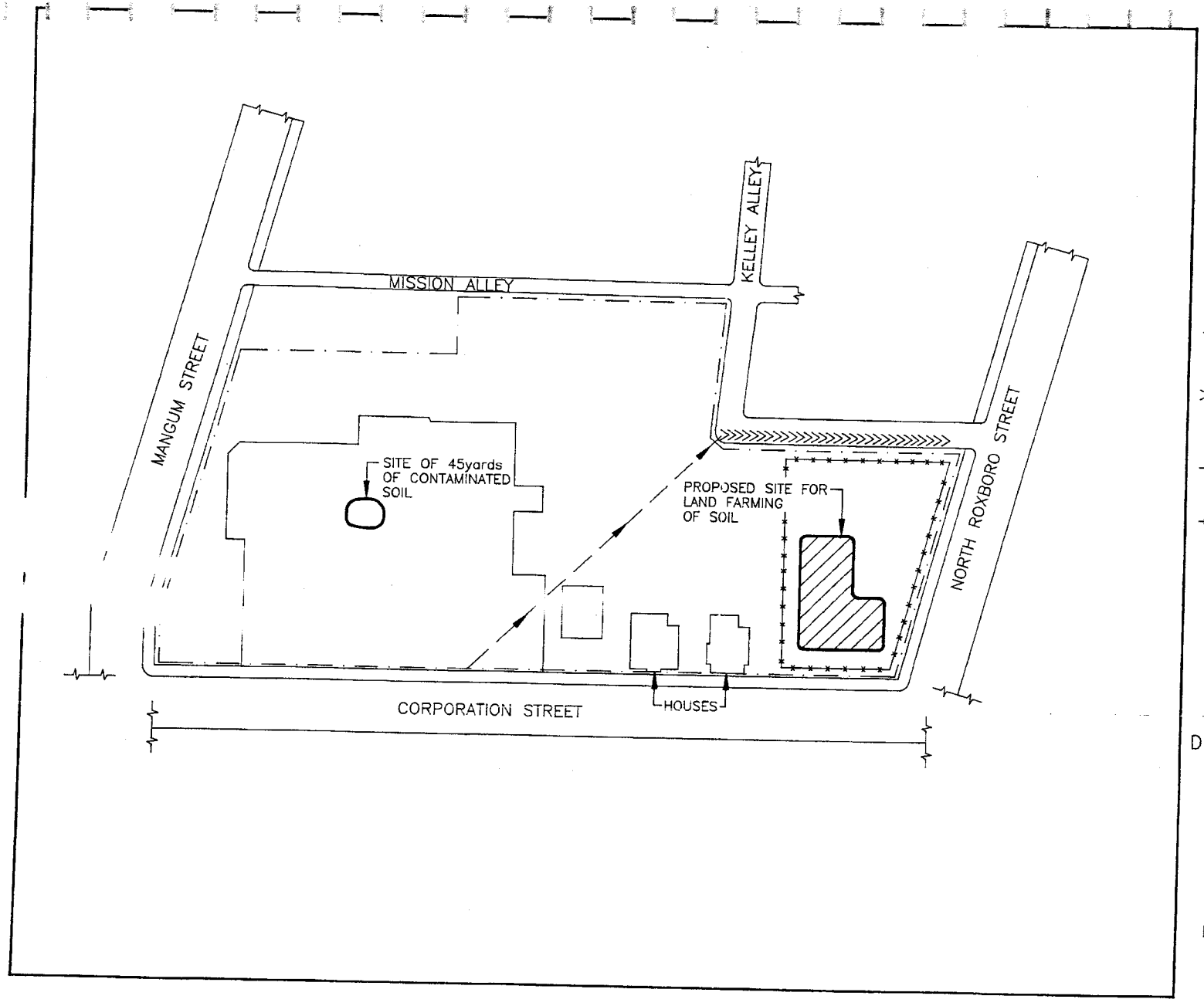
REMARKS ON SAMPLE PROP.

☐ BOTTLE INTACT ☐ CUSTODY SEALS
☐ PRESERVED ☐ SEALS INTACT
☐ CHILLED ☐ SEE REMARKS

LAB REMARKS: 4°C

RECEIPT REMARKS: 24 hour turn around
See Jim Hayes

FIGURE 1



LEGEND

- PROPERTY LINE FOR FARTHING PROPERTIES
- CITY–MAINTAINED STORMWATER DRAINAGE DITCH
- REPORTED APPROXIMATE LOCATION OF STORMWATER SEWER PIPING
- FENCE

FARTHING PROPERTIES
DURHAM, NORTH CAROLINA

LAND FARMING SITE

NOT TO SCALE

FILE NO. 6090.001–09P

GREENGERE ENGINEERS, INC.

POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

Department of Environment, Health, Natural Resources
Division of Environmental Management
GROUNDWATER SECTION

Confirm. GW Contamination (Y/N) X
Major Soil Contamination (Y/N) X
Minor Soil Contaminatin (Y/N) ____

Incident # 15352

Date Incident Occurred or Leak Detected 3-21-94

INCIDENT DESCRIPTION

Incident Location/Name AMERICAN TEXTILES SERVICES

Address 800 MANGUM STREET

City/Town DURHAM | County DURHAM | Region RAL

Briefly Describe Incident TWO SEPARATE RELEASES CONFIRMED WITH CLOSURE REPORTS

REPORT #1 10,000 GAL DIESEL & 8000 GAL SOLVENT

REPORT #2 (3) 500 GAL. SOLVENT (INSIDE FACILITY)

POTENTIAL SOURCE OWNER-OPERATOR

Potential Source Owner-Operator JIM FARTHING | Telephone 919-383-8309

Company | Street Address 1821 HILLANDALE ROAD, BOX 18-315

City DURHAM | County DURHAM | State N.C. | Zip Code 27705

OWNERSHIP
0. N/A 1. Municipal 2. Military 3. Unknown (4. Private) 5. Federal 6. County 7. State

OPERATION TYPE
0. N/A 1. Public Service 2. Agricultrural 3. Residential 4. Educational/Relig. 5. Industrial (6. Commercial) 7. Mining

POLLUTANTS INVOLVED

MATERIALS INVOLVED	AMOUNT LOST	AMOUNT RECOVERED
DIESEL		
SOLVENTS		

SOURCE OF POLLUTION

PRIMARY SOURCE OF POLLUTION (Select one)
1. Intentional dump
2. Pit, pond, lagoon
(3.) Leak-underground
4. Spray irrigation
5. Land application
6. Animal feedlot
7. Source unknown
8. Septic tank
9. Sewer line
10. Stockpile
11. Landfill
12. Spill-surface
13. Well
14. Above-ground Storage Tank
15. Nonpoint source

PRIMARY POLLUTANT TYPE (Select one)
1. Pesticide/herbicide
2. Radioactive waste
(3.) Gasoline/diesel
4. Heating oil
(5.) Other petroleum prod.
6. Sewage/septage
7. Fertilzers
8. Sludge
9. Solid waste leachate
10. Metals
11. Other inorganics
12. Other organics

LOCATION
(1.) Facility
2. Railroad
3. Waterway
4. Pipeline
5. Dumpsite
6. Highway
7. Residence
8. Other

SETTING
1. Residential
(2.) Industrial
3. Urban
4. Rural

Site Priority Ranking 70 ~~35~~ E

D.E.M. Regional Contact JIM ROUSH | Signature James M. Roush | Date 3-4-96

GW-61 Revised 2/95

Incident Name: AMERICAN TEXTILE SVCS- Region/County: RAL/DURHAM

Groundwater Incident File #_____ Ranking Performed by: JIM R.

Date: 3-4-96

NORTH CAROLINA
GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT
SITE PRIORITY RANKING SYSTEM

(To be completed by Regional Office)

		Points Awarded
I.	**IMMINENT HAZARD ASSESSMENT**	
A.	Explosion - free product in confined areas or vapor phase product detected at or above 20% of the lower explosive limit or at health concern levels; award 50 points total	0
B.	Fire - free product subject to ignition in exposed areas such as surface water impoundments, streams, excavations, etc.; award 50 points total	0
II.	**EXPOSURE ASSESSMENT**	
A.	Contaminated Drinking Water Supplies	
1.	Private, domestic water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 10 points per well	0
2.	Public or institutional water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 20 points per well	0
3.	Exceedances of Class WS-1 surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	0
4.	If a water supply well identified in items II. A. 1 and II. A. 2 cannot be replaced by an existing public water supply source requiring hook-up only; award additional 10 points per irreplaceable well	6
B.	Threat to Uncontaminated Drinking Water Supplies	
1.	Private, domestic water supply well located within 1500 feet down gradient of contaminant source; award 10 points per well	0
2.	Public or institutional water supply well located within 1500 feet downgradient of contaminant source; award 15 points per well	0
3.	Raw surface water intake for public water supply located within 1/2 mile downgradient of contaminant source; award 5 points per water supply system	0
4.	If any well identified in items II. B. 1 and II. B. 2 or an intake in item II. B. 3. are located within 250 feet of contaminant source; award additional 20 points total (not per well or intake)	0
C.	Vapor Phase Exposure	
1.	Product vapors detected in inhabitable building(s) below 20% of the lower explosive limit or health concern levels; award 30 points total	0

2. Water supply well(s) within 1500 feet of site, but not contaminated and no alternate water supplies available.

3. Vapors present in confined areas but not at explosive or health concern levels.

Priority C - (Both)

1. No water supply well(s) contaminted.

2. Water supply well(s) greater than 1500 feet from site, no alternate water supply available.

Priority D - (Both)

1. No water supply well(s) contaminted.

2. Water supply well(s) within 1500 feet of site but alternate water supplies available.

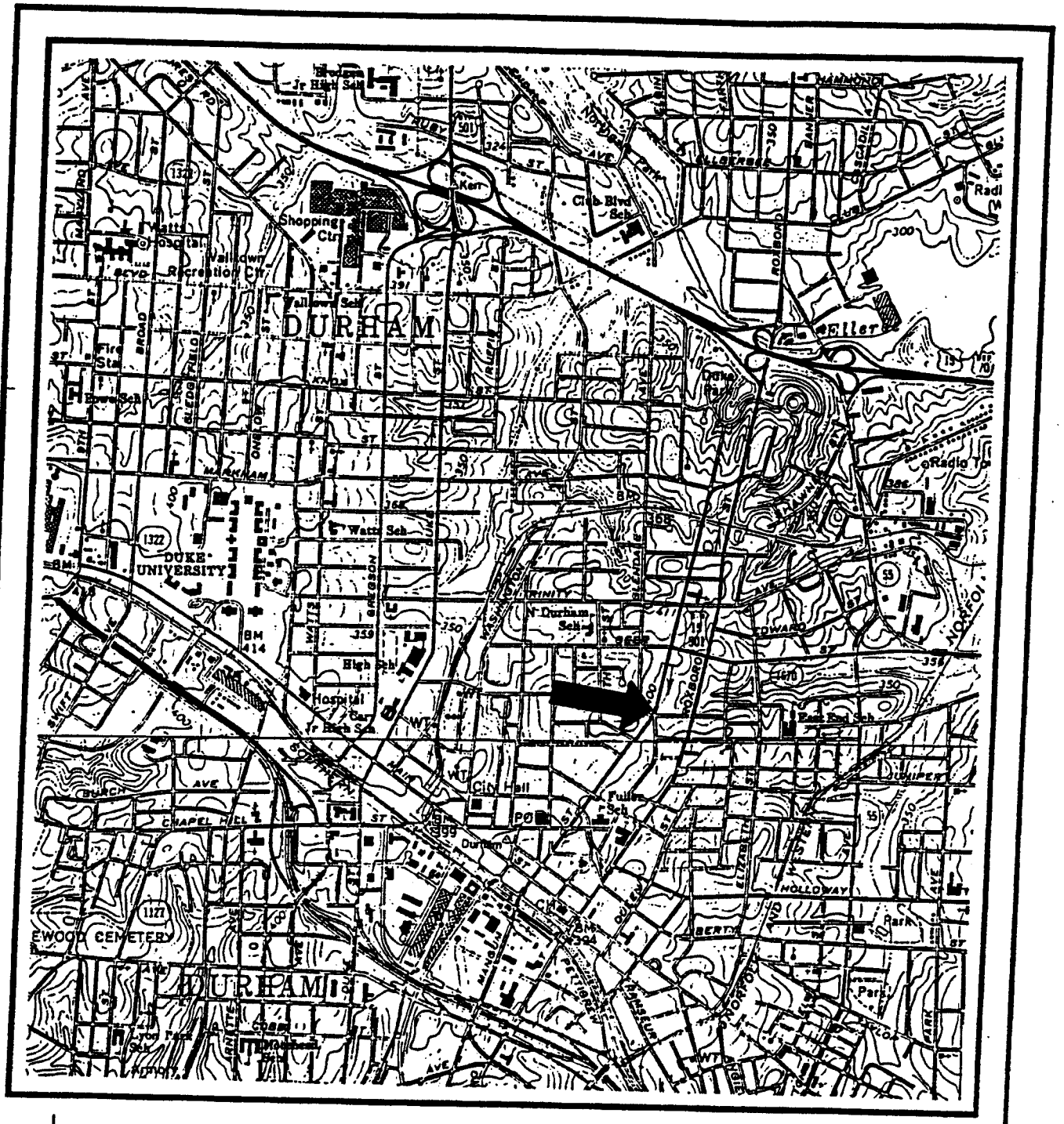
Priority E - (Both)

1. No water supply well(s) contaminated or within 1500 feet of site.

2. Area served by alternate water supply.

TOTAL POINTS AWARDED

70 ~~35~~ E
#/Letter



USGS 7.5 MINUTE SERIES TOPOGRAPHIC
NORTHWEST & SOUTHWEST DURHAM,
NC QUADRANGLE
PHOTOREVISED 1987

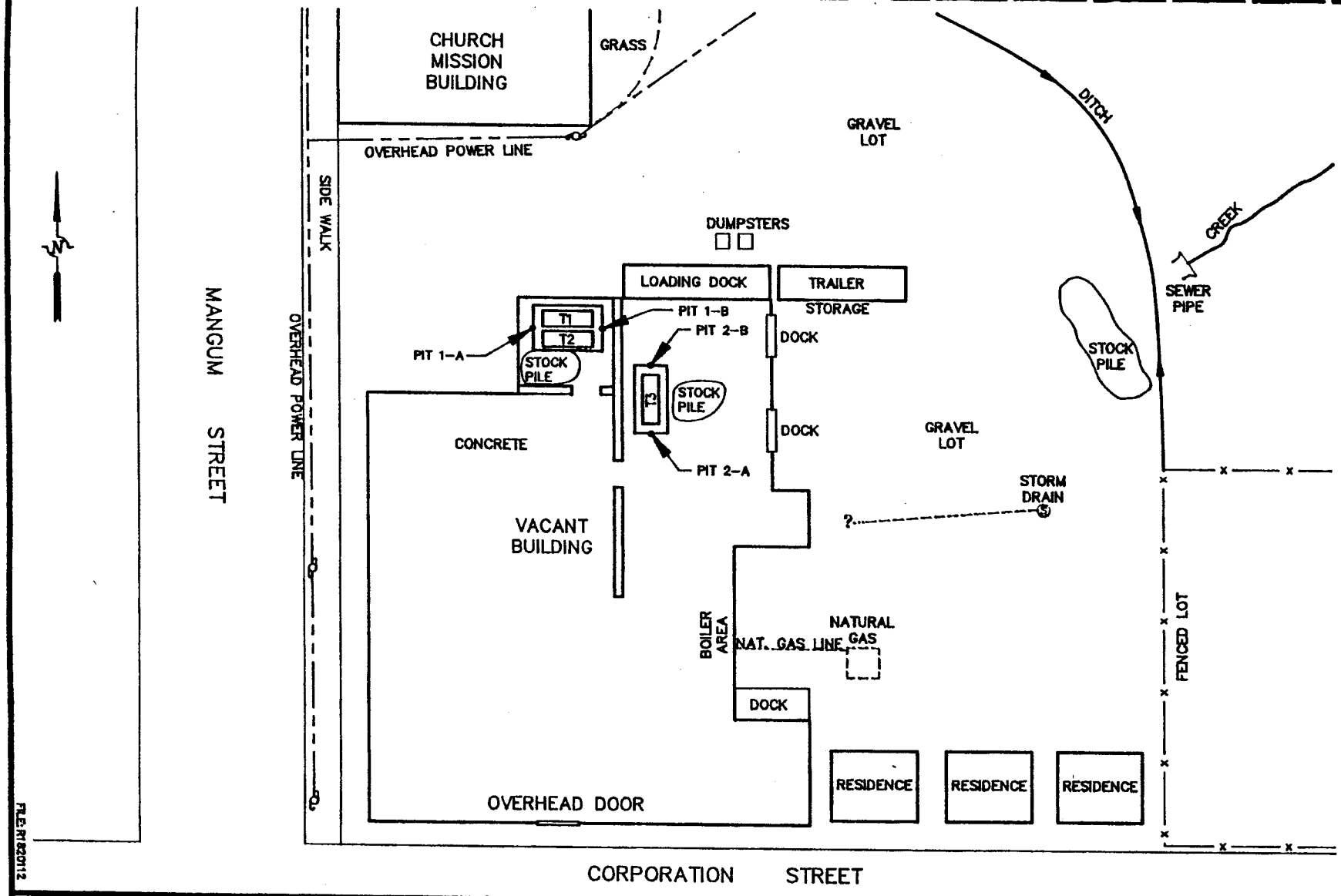
ENSCI®
ENGINEERING GROUP P.A.

VICINITY MAP

800 MANGUM STREET

DURHAM COUNTY — DURHAM, NC

SCALE:	PROJECT NO.:	FIGURE NO.:
1" = 2000'	R182011	1



FILE:R182011.2

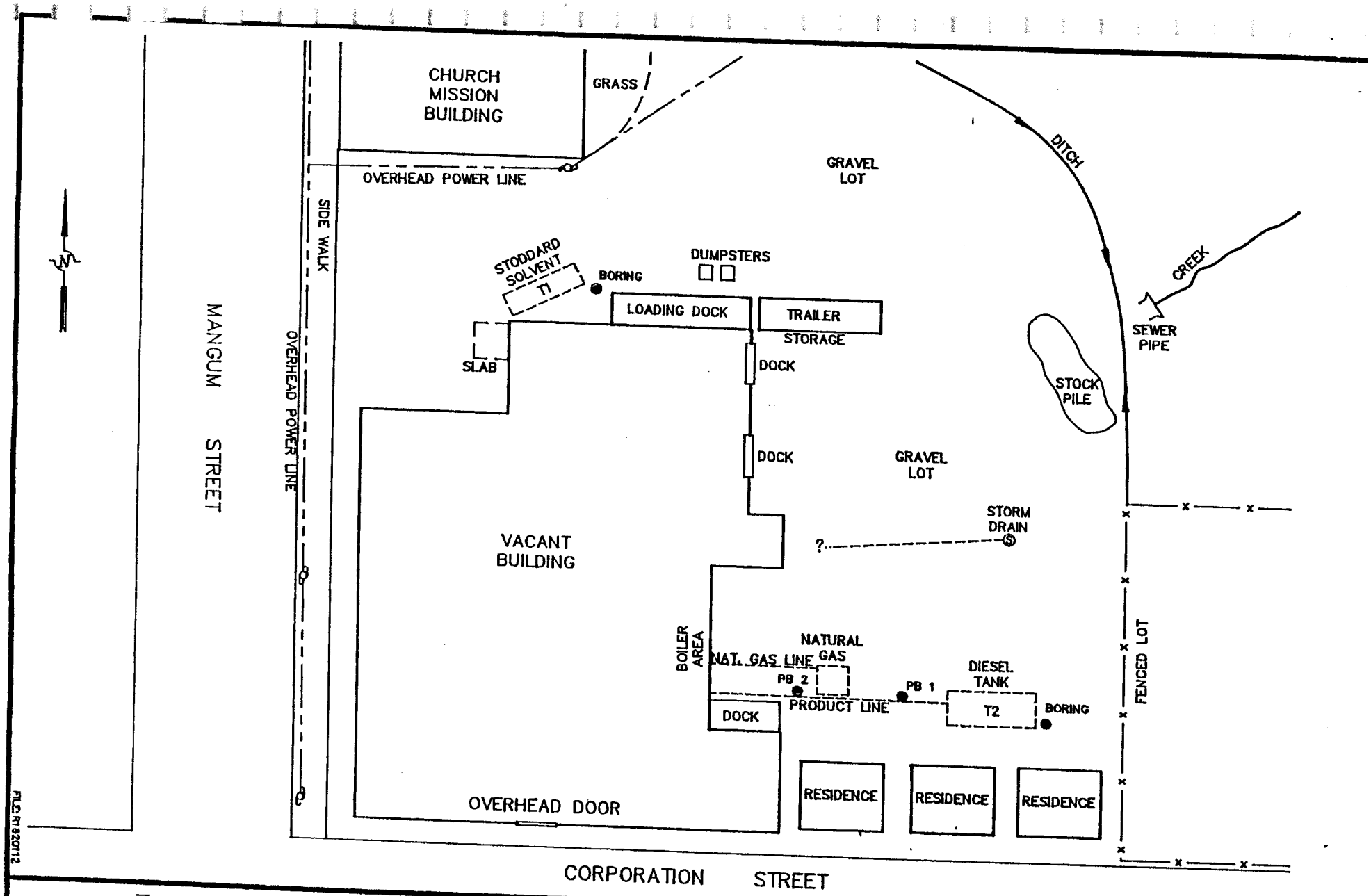
ENSCI®
ENGINEERING GROUP P.A.

SITE MAP

800 MANGUM STREET

DURHAM COUNTY **DURHAM ,NC**

SCALE:NOT TO SCALE	PROJECT NO.: R182011	FIGURE NO.: 2



FILE: R182012

ENSCI®
ENGINEERING GROUP P.A.

SITE MAP
800 MANGUM STREET
DURHAM COUNTY
DURHAM ,NC

SCALE:NOT TO SCALE	PROJECT NO.: R182011	FIGURE NO.: 2

State of North Carolina
Department of Environment,
Health and Natural Resources
Raleigh Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

DEHNR

Division of Environmental Management
Groundwater Section
March 18, 1996

Mr. Jim Farthing
821 Hillandale Road, Box 18-315
Durham, North Carolina 27705

Subject: Review of Underground Storage Tank Closure Report
American Textiles Services
800 Magnum Street
Durham, North Carolina

Dear Mr. Farthing:

The groundwater section of the Division of Environmental Management reviewed the Underground Storage Tank (UST) closure report for the above facility on February 12,1996. The report was received on October 5,1994.

Your closure report was missing the following information:

* **According to the North Carolina Administrative Code 15A NCAC 2N .0803 (3), the number and location of samples, and the method of their collection shall be determined in accordance with procedures established by the Department of Environmental Health and Natural Resources (DEHNR).**

  A minimum of two samples are required around each tank greater than or equal to six feet in length.

Therefore, please provide this additional information on or before April 18, 1996. If you have any questions, please contact me at (919) 571-4700.

Sincerely,

James Roush
Hydrogeological Technician II
Raleigh Regional Office

cc: File / JMR
Mr. David Lazzo, ENSCI Environmental, P.O. Box 80275, Raleigh, North Carolina 27623-0275
h:\wpdata\cls-is.1

State of North Carolina
Department of Environment,
Health and Natural Resources
Raleigh Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

DEHN

Jay, I included file for this one, as I could locate no letter shell on S. *.* Shell

DIVISION OF ENVIRONMENTAL MANAGEM
GROUNDWATER SECTION
March 18,1996

P.S. All letters (NOV's) should have file name *.NOV at end of letter. Need headers for any pages after page #1. J

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Jim Farthing
1821 Hillandale Road, Box 18-315
Durham, North Carolina 27705

Subject: Notice of Violation
North Carolina Administrative Code
Title 15A Subchapter 2L (.0202/~~.0106)~~
Inc # Unassigned; American Textiles Services
Durham, Durham County

Dear Mr. Farthing:

Chapter 143, Article 21A, of the North Carolina General Statutes, authorizes and directs the Environmental Management Commission (Commission) of the Department of Environment, Health and Natural Resources to protect and preserve the water and air resources of the State. The Division of Environmental Management (Division) has the delegated authority to enforce adopted pollution control rules and regulations.

The Groundwater Quality Standards were established in accordance with the provisions set forth in General Statute (G.S.) 143-214.1 and are located in Title 15A North Carolina Administrative Code Subchapter 2L Rule .0202 (15A NCAC 2L .0202). No person shall conduct or cause to be conducted, any activity which causes the concentration of a substance to exceed the standards specified at 15A NCAC 2L .0202.

On February 9, 1996, the Division reviewed a closure report received on May 9, 1994 from ENSCI Environmental concerning the removal of two underground storage tanks (8000 gallon Stoddard solvent and 10,000 gallon diesel) with information concerning the

3800 Barrett Drive, Suite 101, Raleigh, North Carolina 27609 Telephone 919-571-4700 FAX 919-571-4718
An Equal Opportunity Affirmative Action Employer 50% recycled/ 10% post-consumer paper

violation of Groundwater Quality Standards for Benzo (a) anthracene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Chrysene, Indeno (1,2,3-cd) pyrene, and Benzene above the allowable concentrations as established in 15A NCAC 2L .0202. This information consisted of analytical data from a groundwater sample taken from a boring adjacent to the excavated 8,000 gallon Stoddard solvent tank. The sample contained 28 ug/l of Benzo (a) anthracene, 28 ug/l Benzo (b) fluoranthene, 26 ug/l of Benzo (k) fluoranthene, 31 ug/l of Chrysene, 21 ug/l of Indeno (1,2,3-cd) pyrene, and 1 ug/l of Benzene.

As a result of these findings, you are requested to submit a Comprehensive Site Assessment (CSA) report and a Corrective Action Plan (CAP) in accordance with 15A NCAC 2L .0106. This rule requires any person conducting or controlling an activity not permitted by the State which results in the increase in the concentration of a standard, to assess the cause, significance and extent of the violation; submit a report as required by 15A NCAC 2L .0111 in such detail as specified by the Director; submit a plan for eliminating the source of the contamination and for restoration of the groundwater; and to implement the plan. The CSA and CAP must follow the format of, and include all of the information in, the " Groundwater Section Guidelines For The Investigation and Remediation of Soils and Groundwater". A copy of the guideline is available at this office.

Amendments to 15A NCAC 2L .0106 require that persons seeking reimbursement for the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds shall implement a corrective action plan. This plan must meet the requirements of Paragraphs (k) and (l) of 15A NCAC 2L .0106 unless it can be demonstrated that the contamination resulting from this discharge cannot qualify for approval based on the requirements of these two paragraphs or that the cost of making such a demonstration would exceed the cost of implementing a CAP based on other alternatives.

You are requested to respond to this Notice on or before April 18, 1996 and indicate your intentions to comply with the above rules or the reasons why you cannot or will not comply. If this office does not receive a response as requested, then it will be assumed that you intend to comply with this Notice.

Failure to respond within the time specified may result in the recommendation of enforcement action to the Director who may issue a proposed civil penalty assessment under authority of G.S. 143-215.6A, which provides that a civil penalty of not more than $10,000 may be assessed against any person who violates the Commission's rules. If any action or failure to act is continuous, each day may be considered a separate violation.

Failure to comply with the corrective action rules may also result in the Attorney General of the State requesting an injunction in Superior Court requiring the necessary measures. Any willful or knowing noncompliance which allows groundwater standards to

continually be exceeded may result in criminal sanctions being sought under G.S. 143-215.6B.

Should you have any questions, please contact Mr. Jim Roush or Mr. Keith Edwards of the Raleigh Regional Office at (919) 571-4700.

Sincerely,

Kenneth Schuster, P.E.
Regional Supervisor
Raleigh Regional Office

JZ:KS:JMR:jmr

cc: James K. Holley, P.G.
P.O. Box 80275
Raleigh, N.C. 27623-0275

UST(S) CLOSURE CHECKLIST

NAME JIM R.
DATE 2-9-96

SITE NAME: American Textile Services "A"
CITY/TOWN: DURHAM COUNTY: DURHAM
DATE USTs CLOSED 3-21-94 DATE REPORT RECEIVED 5-9-94
(Y) N GW/UST-2 SUBMITTED

UST(S)

Number	1	2	3	4	5	6	7	8
Size(s)	8000	10000						
Product(s)	STODDARD SOLVENT	DIESEL						

MAPS
(Y) N Location of Site
(Y) N UST locations
(Y) N Dispensers & product lines
(Y) N Sampling locations

SAMPLING LOCATION(S)
(Y) N Correct number of samples analyzed ? BORINGS
(Y) N N/A Samples every 20' of piping
Y N (N/A) Samples under each tank island
Total number of samples 4
Samples: floor, side, stockpiled soil, BORINGS, FLOOR

SAMPLE COLLECTION QUALITY CONTROL
? Y N Preserved on ice
? Y N Tools decontaminated: soap, Di-H_2O, MEOH, organic-free H_2O
(Y) N Chain-of-Custody form (required)
Date sample collected 4-4-94 Date lab received 4-7-94

ANALYTICAL RESULTS
(Y) N Correct analytical methods performed
(Y) N Data below action levels
Y (N) SSE performed
Y N (N/A) SSE action level correct
Y (N) TCLP required
Y N (N/A) TCLP values above regulatory level
(Y) N Groundwater intersected
Y (N) Bedrock encountered
(Y) N Groundwater or pit samples collected

EXCAVATED SOIL
(Y) N Soil excavated
Volume of soil excavated 50 cubic yards
Final disposal site of soil ON SITE OK

COMMENTS:
- SAMPLE COLLECTION QUALITY CONTROL NOT INDICATED
- ~~2 BORING SUFFICIENT ? FOR TANK LOCATIONS ?~~
- ~~CORRECT ANALYTICAL METHODS ?~~
- ~~DESTINATION OF SOILS ?~~
- ~~EXCAVATED SOILS - ANALYSIS FOR SOLVENTS ?~~
- ~~NOT~~ ~~REGISTERED~~, P.I.R.F. ON 3-21-94

ABOVE GA STANDARDS - CHRYSENE, BENZO(a) ANTRACENE, BENZENE
NOT SURE FOR BENZO(B) FLUORANTHENE
BENZO(K) FLUORANTHENE, INDENO (1,2,3-cd) pyrene

UST(S) CLOSURE CHECKLIST

NAME JIM R.
DATE 2-12-96

SITE NAME: AMERICAN TEXTILES SERVICE "B"
CITY/TOWN: DURHAM COUNTY: DR
DATE USTs CLOSED 7-12-94 DATE REPORT RECEIVED 9-1-94
(Y) N GW/UST-2 SUBMITTED

UST(S)

Number	1	2	3	4	5	6	7	8
Size(s)	550	550	550					
Product(s)	STODDARD SOLVENT							

MAPS
(Y) N Location of Site
(Y) N UST locations
Y (N) Dispensers & product lines
(Y) N Sampling locations

SAMPLING LOCATION(S)
Y (N) Correct number of samples analyzed
Y N (N/A) Samples every 20' of piping
Y N (N/A) Samples under each tank island
Total number of samples 4
Samples: floor, (side), stockpiled soil, ?

SAMPLE COLLECTION QUALITY CONTROL
? Y N Preserved on ice
Y N Tools decontaminated: soap, Di-H_2O, MEOH, organic-free H_2O
(Y) N Chain-of-Custody form (required)
Date sample collected 8-5-94 Date lab received 8-5-94

ANALYTICAL RESULTS
(Y) N Correct analytical methods performed
Y (N) Data below action levels
Y (N) SSE performed
Y N (N/A) SSE action level correct
Y (N) TCLP required
Y N (N/A) TCLP values above regulatory level
Y (N) Groundwater intersected
Y (N) Bedrock encountered
Y (N) Groundwater or pit samples collected

EXCAVATED SOIL
(Y) N Soil excavated
Volume of soil excavated 12 yd^3
Final disposal site of soil ON SITE w/ 50 yd^3 from other tank(s) site at this location

COMMENTS: — SHOULD HAVE 2 ADDITIONAL SAMPLES

— NO DESCRIPTION OF SAMPLING LOCATION (FLOOR, SIDE, etc) OR COLLECTION QUALITY CONTROL

DR

cfr.

BUGG & WOLF, P.A.
ATTORNEYS AT LAW
SUITE 160, UNIVERSITY OFFICE PARK
411 ANDREWS ROAD
DURHAM, NORTH CAROLINA 27705

JOHN E. BUGG
EDWARD N. POLLARD
JAY M. WILKERSON
WILLIAM J. WOLF

POST OFFICE BOX 2917
DURHAM, NORTH CAROLINA 27715

TELEPHONE (919) 383-9431
TELECOPIER (919) 383-9771

August 8, 1996

AUG 12 1996

Mr. Jay Zimmerman
Department of Environment,
Health and Natural Resources
3800 Barrett Drive, Suite 101
Raleigh, NC 27609

Re: Facility Name: American Textile Services
Groundwater Incident No.: 15352

Dear Mr. Zimmerman:

Enclosed herewith is a copy of a notification dated July 15, 1996 but mailed sometime this month. Please be advised that Mr. James D. Farthing passed away on April 10, 1995. I did not handle Mr. Farthing's estate, but I believe it is probably closed by now. To the best of our knowledge the current owner of the property is: UDI Community Development Corporation, c/o Ed Stewart, 631 United Drive, Durham, NC 27713. The former tenant can be reached at: Theodore W. Rollins, President, American Textile Services, Inc., 131 Franklin Park Avenue, P.O. Box 598, Youngsville, NC 27596. Please adjust your records accordingly.

Sincerely,

William J. Wolf

William J. Wolf

WJW:ceh
Enclosure
cc: American Textile Services, Inc.
F:\WP\FARTHING\CORRESP\ZIMMERMN.LTR