

APR 28 2006

LIMITED SITE ASSESSMENT REPORT

for

Former Thrif-Tee Korner
89 Park Street
Canton, North Carolina 28716

UST Incident No. 28364

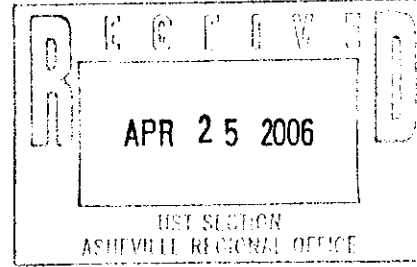
April 24, 2006

Mountain Environmental Group Project No. 6-TOC01-1A



LIMITED SITE ASSESSMENT REPORT

April 24, 2006



Site Name: Former Thrif-Tee Korner
89 Park Street
Canton, NC 28716

Facility ID No.: 0-010567

UST Incident No.: 28634

UST Owner / Operator: Town of Canton
58 Park Street
Canton, NC 28716
Telephone: (828) 648-2363

*Inc#
28364*

Consultant / Contractor: Mountain Environmental Services, Inc.
1560 Pisgah Drive
Canton, NC 28716
Telephone: (828) 648-5556

Date Release Discovered: December 28-29, 2005

Estimated Quantity of Release: Unknown/unquantified

Cause / Source of Release: Two (2) 4,000-gallon gasoline USTs, two (2) 3,000-gallon gasoline USTs, and one (1) 3,000-gallon kerosene UST

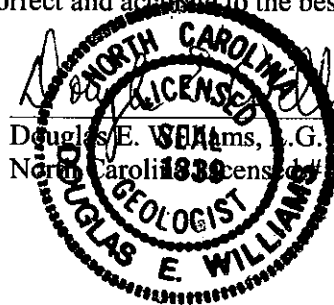
30,000 Gallon UST

Latitude: 35° 31' 53.36" North

Longitude: 82° 50' 30.04" West

Signature and Seal of Certifying Professional Geologist:

I, Douglas E. Williams, a Licensed Geologist for Mountain Geologic, PLLC do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Douglas E. Williams, P.G.
North Carolina License # 1839

*Dew
4-24-06*

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Introduction

This report presents the findings of a Limited Site Assessment (LSA) conducted at the former Thrif-Tee Korner service station in Canton, North Carolina associated with two (2) 4,000-gallon gasoline, two (2) 3,000-gallon gasoline, and one (1) 3,000-gallon kerosene underground storage tanks (USTs) at the Former Thrif-Tee Korner service station. The site is located on the south side of Park Street at its intersection with Sorrells Street with a physical street address of 89 Park Street, Canton, Haywood County, North Carolina. The subject site encompasses two separate parcels containing approximately 0.72 acres, more or less. *Figure 1* is a portion of the USGS 7.5 minute quadrangle map for the Canton, NC Quadrangle and depicts the site location and local topographic features. *Figure 2* is an orthophotograph obtained from the Haywood County Tax Office on-line services depicting the location of the former USTs and former site building.

Site History

The following table summarizes information about the former UST system at the Former Thrif-Tee Korner service station:

Tank No.	Volume (gallons)	Contents (i.e., gasoline, diesel, kerosene, heating oil, waste oil, etc.)	Use (resale, heating building, distribution, farm or residential, etc.)	Date last used	Indicate whether UST has been removed or closed in place	Date of permanent closure (if applicable)	Was a release detected from this UST system? If yes, give date.
1	4,000	Gasoline	Commercial Resale	2005	Removed	Dec. 28-29, 2005	Yes 12/28/05
2	4,000	Gasoline	Commercial Resale	2005	Removed	Dec. 28-29, 2005	Yes 12/28/05
3	3,000	Gasoline	Commercial Resale	2005	Removed	Dec. 28-29, 2005	Yes 12/28/05
4	3,000	Gasoline	Commercial Resale	2005	Removed	Dec. 28-29, 2005	Yes 12/28/05
5	3,000	Kerosene	Commercial Resale	2005	removed	Dec. 28-29, 2005	Yes 12/28/05

UST Owner / Operator: Town of Canton
58 Park Street
Canton, NC 28716
Telephone: (828) 648-2363

Property Owner: Town of Canton
58 Park Street
Canton, NC 28716
Telephone: (828) 648-2363

Corporate Contact: Town of Canton
C/o Martin-McGill
55 Broad Street
Asheville, NC 28801
Contact: Mr. Brian Alligood
Telephone: (828) 255-0313

Dates of Ownership: The Town of Canton purchased the property from Pisgah Oil Company, Inc. in August 2005, as recorded in the Haywood County Register of Deeds Office in Deed Book 641, Page 1909,

Initial Abatement Activities

On December 28-29, 2005, Mountain Environmental visited the site to oversee the removal of the UST system associated with the Thrif-Tee Korner service station. Mountain Environmental contracted HydroPro Services of Clyde, North Carolina to remove the UST system consisting of two (2) 4,000-gallon gasoline USTs, two (2) 3,000-gallon gasoline USTs, one (1) 3,000-gallon kerosene UST, and associated dispensers. *Figure 2* and *Figure 3* show the location of the former USTs and dispensers. A track-hoe was utilized to remove the USTs and contaminated soil encountered. Approximately 37.31 tons of impacted soil was removed during the UST removal and temporarily stockpiled on plastic at the site. The contaminated soil was sent to Environmental Soils, Inc. in Lattimore, North Carolina, for disposal. The USTs were sent to Biltmore Iron and Metal (a commercial metal recycling and reclamation company) in Asheville, North Carolina for disposal. No groundwater was encountered in the excavation area; therefore, appropriate soil samples were taken at a depth of 1.5 feet to 2 feet below each UST and dispenser. The final excavation measured approximately 25 to 30 feet wide by 60 feet long. The total depth of excavation was 8 to 9 feet. The completed excavation cavity was backfilled with fill dirt and compacted with the track-hoe bucket.

Risk Characterization

The four page risk characterization form provided in the *Guidelines for Assessment and Corrective Action; North Carolina Underground Storage Tank Section, April 2001* (guidelines) has been completed, and is contained in *Appendix A*. Additionally, the risk classification criteria outlined on pages 4-4 through 4-6 of the guidelines has been reviewed in regards to this site. Based on these risk classification guidelines, the former Thrif-Tee Korner meets the criteria for classification as intermediate risk. An intermediate risk classification was chosen based on the location of the Pigeon River located 50 feet west of the site and the presence of approximately 1.3 feet of free product in the source area monitoring well MW-1. The land use designation for the site should be classified as industrial/commercial. The surrounding properties contain medium density commercial and residential development.

Receptor Information

1. Water Supply Wells

Mountain Environmental Services personnel performed a water well survey in the vicinity of the site in March 2006 by mailing well survey forms to all property owners within 500 feet of the site, observing surrounding properties for wells and water meter connections, and interviewing local residents. No water supply wells were identified within 1,500 feet of the site. The intake for Blue Ridge Paper Products process water supply is located on the east side of the Pigeon River approximately 660 feet north of, and down stream from the Thrif-Tee Korner source area. A 1,500 foot radius surrounding the source area is depicted on *Figure 1*. Water supply well survey forms which were returned are included in *Appendix B*.

2. Public Water Supplies

Public water supply is available in the vicinity of the site and is supplied by the Town of Canton. The water filtration plant for the Town of Canton water system has an intake and raw water pumping station located on the Pigeon River, approximately 5,250 feet upstream of the release area (approximately 3,400 feet directly).

3. Surface Water

The closest surface water body is the Pigeon River located approximately 50 feet west of the source area. The Pigeon River flows north for approximately 50 miles and discharges into the French Broad River immediately upstream from Douglas Lake in eastern Tennessee. As identified by *15A NCAC 2B .0304 Classifications and Water Quality Standards Assigned to the French Broad River Basin* the Pigeon River is classified as Class C water quality designation from the Town of Canton water intake (approximately 3,000 feet upstream of site) to the North Carolina/Tennessee border. Surface waters with Class C water quality classifications are defined in *15A NCAC 2B .0214 Classifications and Water Quality Standards Applicable to Surface Waters and Wetlands of North Carolina* and are described as "Waters protected for secondary recreation, fishing, wildlife, fish and aquatic life propagation and survival, agriculture and other uses suitable for Class C. Secondary recreation includes wading, boating, and other uses involving human body contact with water where such activities take place in an infrequent, unorganized, or incidental manner. There are no restrictions on watershed development or types of discharges. Sheen of petroleum product has been observed intermittently emanating from the river bank immediately down gradient from the source area. Petroleum absorbent booms have been placed in the river surrounding the emanation and periodically maintained to collect suspected product discharging into the river.

4. Wellhead Protection Areas

A review of information available from the Public Water Supply Section web page (http://www.deh.enr.state.nc.us/pws/wellhead/update/wellhead_protection_program.htm) Approved Wellhead Plans Database indicated no listings of approved wellhead protection areas

for Haywood County. Based upon this review, it does not appear that the subject release incident is located within an approved wellhead protection area.

5. Deep Aquifers in the Coastal Plain Physiographic Region

The subject site is located within the Blue Ridge Physiographic Province of North Carolina and the release should pose no risk to deep aquifers of the Coastal Plain Physiographic Region.

6. Subsurface Structures

There are no subsurface structures associated with the former gas station present that appear to be affected by the release.

Public utilities (sanitary sewer, water, telecommunication, natural gas or electric) which could serve as migration pathways or receptors for vapors or non-aqueous phase hydrocarbons were not observed on site within the limits of the excavation during UST closure activities. However municipal storm sewers, city water lines and sanitary sewer lines are located in the vicinity of the source area, primarily along and beneath the street and road right-of-ways.

According to Dale Inman with the Town of Canton Water and Sewer Department, a 10" water main is located along the north side Park Street oriented roughly parallel with the trend of the road and a 4" water line is located along the south side of Park Street also oriented roughly with the trend of the road. Mr. Inman also indicated the presence of a storm sewer beneath Sorrells Street immediately west of the site. An underground fiber optic line was noted running parallel to the western side of Sorrells Street between the site and Pigeon River. The depth of buried utilities generally occur less than 6 feet below ground surface (BGS); therefore, based on the groundwater level in the on site monitoring well, groundwater migration via the fiber optic trench does not appear to be a concern. However, based upon the zone(s) of observed soil contamination during the UST removal, it is possible that some of the utilities lie within petroleum affected soil. Impact to the utilities is not known.

7. Property Owners and Occupants

The property containing the source area formerly served as a retail gasoline service station; therefore, the land use at the site should be classified industrial/commercial. The property is currently vacant with the service station building having been removed in February 2006. **Figure 2** depicts a general site map of the former USTs and building locations and **Table 1** lists the adjacent property owners.

The site is located in downtown Canton, North Carolina at the intersection of Park and Sorrells Streets. The vicinity of the Former Thrif-Tee Korner can be considered urban mixed-usage to include: industrial, commercial business, and light to medium density residential. The site is currently vacant. It is our understanding the Town of Canton proposes to incorporate and develop the property as a municipal park and public greenway.

Site Geology and Hydrogeology

Regional Geology

The subject site is located within the central portion of the Blue Ridge lithotectonic belt of the Blue Ridge Physiographic Province in western North Carolina. Mountain Environmental reviewed the Bedrock and Mineral Resources of the Knoxville 1° X 2° Quadrangle Tennessee, North Carolina, and South Carolina (USGS Survey Bulletin - 1979) and the Geologic Map of North Carolina (NC Department of Natural Resources and Community Development - 1985) for the published bedrock data regarding the subject site. The review of published data indicates the bedrock at the site to be a Mid-Proterozoic aged (900 to 1600 million years before present) biotite gneiss and amphibolite (map unit "Yga") of the Richard Russell Formation. The Richard Russell Thrust Sheet is interpreted as a relatively low angle thrust sheet of crust material containing some of the oldest rock in the region. The rock unit is described as "Layered biotite-granite gneiss and biotite hornblende gneiss interlayered with and gradational with biotite-garnet gneiss, calc-silicate rock, marble and amphibolite..." (Robinson, Lesure, Marlowe, Foley and Clark-USGS Geological Survey Bulletin, 1979) Biotite gneiss is a relatively dense, coarsely foliated crystalline metamorphic rock exhibiting alternating light and dark layers or bands of minerals (caused by segregation of quartz and feldspar from darker colored minerals) with roughly parallel to prominently parallel mineral orientation (depending in part upon biotite mica content). The amphibolite is predominantly massive with small crystalline structure exhibiting dark minerals associated with the amphibole mineral group (high iron and magnesium content); hornblende, anthophyllite, tremolite, glaucophane and others. Bedrock was not encountered during the drilling of the source area monitoring wells which would provide verification of the documented rock unit.

Site Geology

The location for monitoring well MW-1 was chosen based on soil analytical results from the UST removal, proximity to the former UST excavation, and drill rig access. Based on the soils observed during the installation of MW-1 the soils consist primarily of a black, well sorted, fill sand to a depth of approximately 10 feet BGS and a black, micaceous, sandy, clay from 10 to 18 feet BGS. Drill rig refusal was encountered at approximately 18 feet BGS; therefore, MW-1 was installed to a depth of 18 feet BGS. Based upon the site location with respect to the Pigeon River, the source area appears to be located within the flood plain of the river. **Figure 3** depicts the location of MW-1 and **Appendix C** includes a soil boring log and monitoring well construction details.

Site Hydrogeology/Hydrology

The subject site is located approximately 50 feet east of the Pigeon River in an area demonstrating relatively flat topography. Groundwater in the vicinity of the release occurs as a relatively shallow unconfined or partially confined water table aquifer and is presumed to follow topography and flow to the Pigeon River west from the source area. The depth to groundwater in MW-1 was 13.18 feet below top of casing (TOC) as measured on February 21, 2006. Free product was detected in MW-1 at a depth of 11.88 feet below TOC.

According to documented flood maps reviewed on-line from the Haywood County land records web-site, the western portion of the property along Sorrells Street lies within the designated "flood-way", and the entire property is designated to lie within the 100-year flood plain. This is corroborated by Mountain Environmental field observations during the flood events associated with hurricane/tropical storm activity in September 2004.

Sampling Results

Soil

During the advancement of the source area monitoring well (MW-1) a soil sample was collected from 9-foot to 10-foot BGS. Based upon site observations of soil during the drilling of the well (moist soil), it appeared that the 9-foot to 10-foot sampling interval represented the soil column immediately above the water table and directly below the UST excavation within native soil. Electronic gauging of MW-1 on February 21, 2006, indicated that free product was detected at a depth of 11.88 feet below TOC and groundwater was detected at a depth of 13.18 feet below TOC.

The soil sample from MW-1 was submitted for volatile organic compounds (VOCs) according to EPA 8260, semi-volatile organic compounds (SVOCs) according to EPA 8270, and volatile/extractable petroleum hydrocarbon fractions according to the Massachusetts Department of Environmental Protection (MADEP-EPH/VPH). According to the laboratory analytical report, benzene, n-Butylbenzene, tert-Butylbenzene, isopropylbenzene, p-Isopropyltoluene, n-Propylbenzene, 1,2,4-Trimethylbenzene, total C₉-C₁₈ aliphatics, and C₉-C₂₂ aromatics exceeded the corresponding soil-to-water maximum soil contaminant concentrations (MSCCs). P-Isopropyltoluene total C₉-C₁₈ aliphatics, and C₉-C₂₂ aromatics exceeded the corresponding residential MSCCs and total C₉-C₂₂ aromatics also exceeded the industrial/commercial MSCCs. A summary of the soil analytical results collected during the installation of MW-1 are summarized in *Table 2*. A copy of the laboratory analytical report is included in *Appendix D*.

Groundwater

On February 21, 2006, Mountain Environmental visited the site to gauge and sample monitoring well MW-1. Depth to water in MW-1 was 13.18 feet below TOC and depth to product was 11.88 feet below TOC, giving a calculated layer of free phase product as liquid non-aqueous phase liquids (LNAPLs) of 1.30 feet. According to NCDENR sampling protocol, monitoring wells containing free phase product should not be sampled and therefore a groundwater sample was not collected for chemical analysis.

Free Product

Free phase petroleum product (FPP) as light non-aqueous phase liquid (LNAPL) was encountered in the source area monitoring well during the gauging of the water level when Mountain Environmental attempted to collect a groundwater sample. Approximately 1.3 feet of FPP was gauged in the source area monitoring well. Subsequent gauging of the product and

water levels in the source area monitoring well has yielded similar product thickness. In January, sheen of petroleum product was observed emanating from the river bank into the Pigeon River immediately west of the site. Mountain Environmental placed petroleum absorbent booms in the river in the observed area of emanation to mitigate petroleum product discharging into the river. Mountain Environmental has periodically changed and maintained the booms to reduce the impact to the body of surface water. Product has not been observed emanating from the river bank since approximately mid-March 2006.

Conclusions and Recommendations

Based on the analytical results of soil samples collected on February 20, 2006, during the installation of the source area monitoring well MW-1, a release of product from the tanks has affected the soil at levels exceeding the soil-to-water maximum allowable soil contaminant concentrations established by the NCDENR. The 9-foot to 10-foot soil sample collected from MW-1 indicated levels of benzene, n-Butylbenzene, tert-Butylbenzene, isopropylbenzene, p-Isopropyltoluene, n-Propylbenzene, 1,2,4-Trimethylbenzene, total C₉-C₁₈ aliphatics, and C₉-C₂₂ aromatics exceeding the corresponding soil-to-water MSCCs. P-Isopropyltoluene total C₉-C₁₈ aliphatics, and C₉-C₂₂ aromatics exceeded the corresponding residential MSCCs and total C₉-C₂₂ aromatics also exceeded the industrial/commercial MSCCs.

A groundwater sample was not collected from monitoring well MW-1 due to the presence of approximately 1.3 feet of free phase petroleum product as light non-aqueous phase liquids (LNAPLs).

The risk-based assessment criteria classify this release as intermediate risk based on the location of the Pigeon River located 50 feet west of the site and the presence of approximately 1.3 feet of free product in monitoring well MW-1. The land use designation for the site should be classified as industrial/commercial. The surrounding properties contain industrial, light to medium density residential development and commercial downtown businesses.

Mountain Environmental recommends continued maintenance of the petroleum absorbent booms in the river until surface water emanations have ceased. To remove free phase petroleum product from the source area monitoring well, Mountain also recommends that an aggressive fluid vapor recovery (AFVR) event be conducted on MW-1 and the product rebound in the well gauged to assess the effectiveness of the recovery effort and recovery technology for the Thrif-Tee Korner site, with continued free product gauging on a monthly basis.

TABLE 1
ADJACENT PROPERTY OWNERS

Former Thrif-Tee Korner
Canton, North Carolina

Tax Map Identification Number	Property Address	Owner Name and Address	Direction from Source	Comment
8657-70-3585	89 Park Street Canton, NC 28716	Town of Canton 58 Park Street Canton, NC 28716	Site	
8657-70-5527	89 Park Street Canton, NC 28716	Town of Canton 58 Park Street Canton, NC 28716	East	Adjacent to source property Vacant field east of site
8657-70-4425	8 Sorrells Street Canton, NC 28716	Town of Canton 58 Park Street Canton, NC 28716	South	Adjacent to source property Vacant field behind site
8657-70-3710	92 Park Street Canton, NC 28716	Sprinkle Real Estate Co. Inc. PO Box 1188 Canton, NC 28716	North	Adjacent to source property Across Park Street
8657-70-2706	92 Park Street Canton, NC 28716	Sprinkle Real Estate Co. Inc. PO Box 1188 Canton, NC 28716	Northeast	Adjacent to source property Across Park Street
8657-70-5376	41 Main Street Canton, NC 28716	Blue Ridge Paper Products, Inc. PO Box 4000 Canton, NC 28716	Southeast	Adjacent to source property

TABLE 2
SOIL ANALYTICAL RESULTS

Former Thrif-Tee Korner
Canton, North Carolina

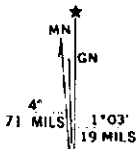
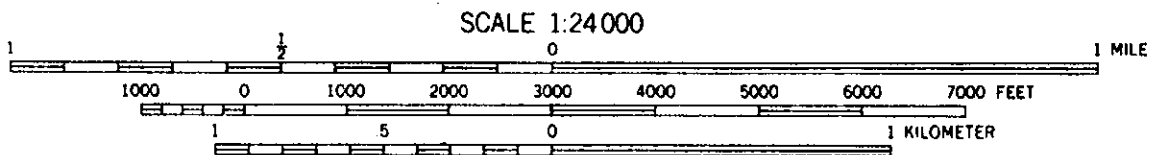
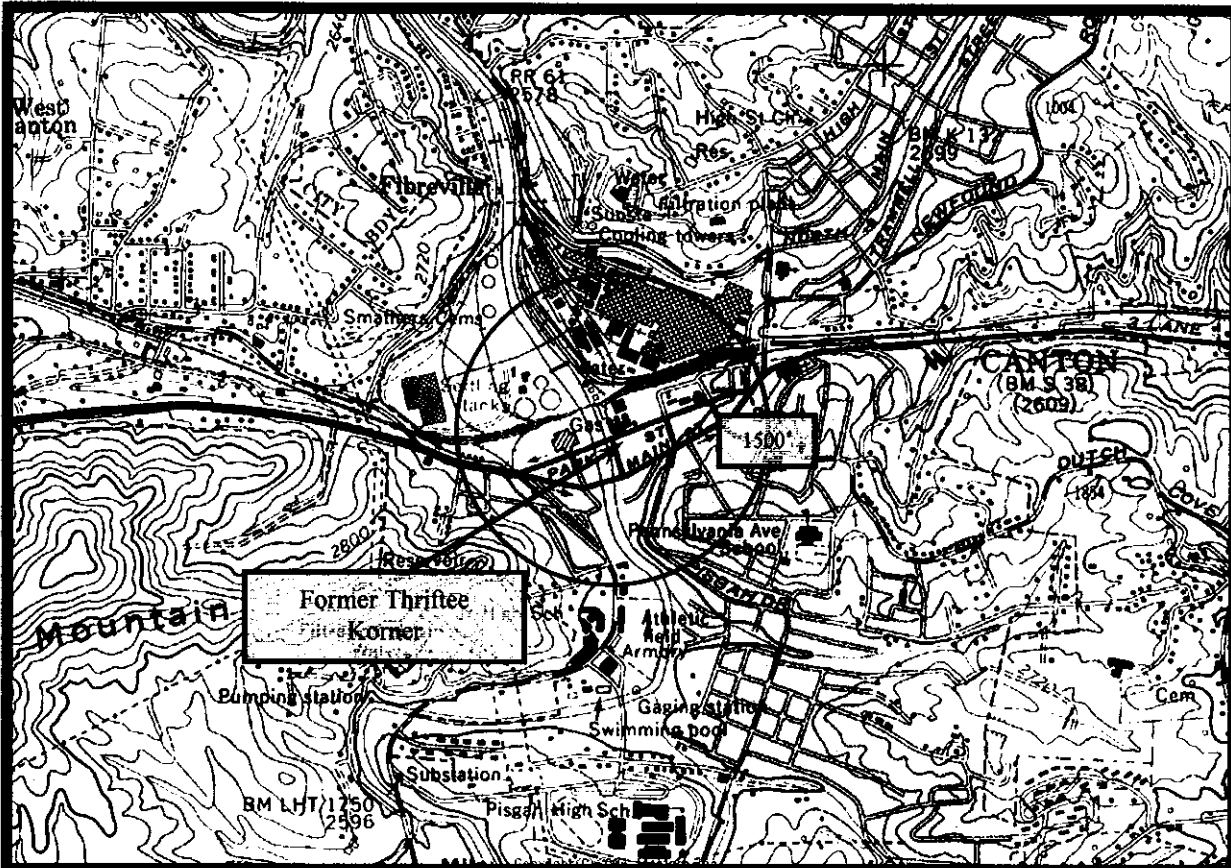
Sample Identification: **MW-1**
Date Collected: **2/20/06**
Depth: **9-10 ft.**

	Concentration in mg/kg	Soil-to-GW Max Soil Cont. Level (mg/kg)	Residential Max Soil Cont. Level (mg/kg)	Industrial/Commercial Max Soil Cont. Level (mg/kg)
Volatile Organic Compounds (EPA Method 8260)				
Benzene	4.185	0.0056	18	164
Toluene	2.690	7.3	3,200	82,000
n-butylbenzene	6.686	4.3	626	16,350
sec-Butylbenzene	1.006	3.3	626	16,350
tert-Butylbenzene	3.751	3.4	626	16,350
Ethylbenzene	2.690	4.6	1,560	40,000
Isopropylbenzene	2.419	1.7	1,564	40,880
p-Isopropyltoluene	6.251	none	none	none
n-Propylbenzene	4.919	1.7	626	16,350
1,2,4-Trimethylbenzene	12.666	7.5	782	20,440
1,3,5-Trimethylbenzene	1.712	7.3	782	200,440
Xylenes (Total)	2.691	5	3,129	81,760
Semivolatile Organic Compounds (EPA Method 8270)				
	Not Detected			
Petroleum Hydrocarbon Fractions (MADEP Methods)				
C5-C8 Aliphatics (VPH)	3,809	72	939	24,528
C9-C12 Aliphatics (VPH)	16,848			
C9-C18 Aliphatics (EPH)	1,500			
Total C9-C18 Aliphatics	22,157	3,300	9,386	245,280
C19-C36 Aliphatics (EPH)	16	Immobile	93,680	93,680
C9-C10 Aromatics (VPH)	14,046			
C11-C22 Aromatics (EPH)	350			
Total C9-C22 Aromatics	14,412	34	469	12,264

Notes:

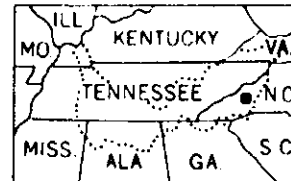
1. Bolded values indicate concentrations which exceed the NCAC 2L groundwater standards.

CANTON QUADRANGLE
 NORTH CAROLINA
 7.5 MINUTE SERIES (TOPOGRAPHIC) 183-SE



UTM GRID AND 1990 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CANTON, N. C.
 35082-E7-TF-024
 1967
 PHOTOREVISED 1990
 DMA 4455 III SE - SERIES V842



QUADRANGLE LOCATION

Figure 1
Site Vicinity Map
 Former Thriftee Komer - 89 Park Street
 Canton, NC



Thrif-Tee Korner

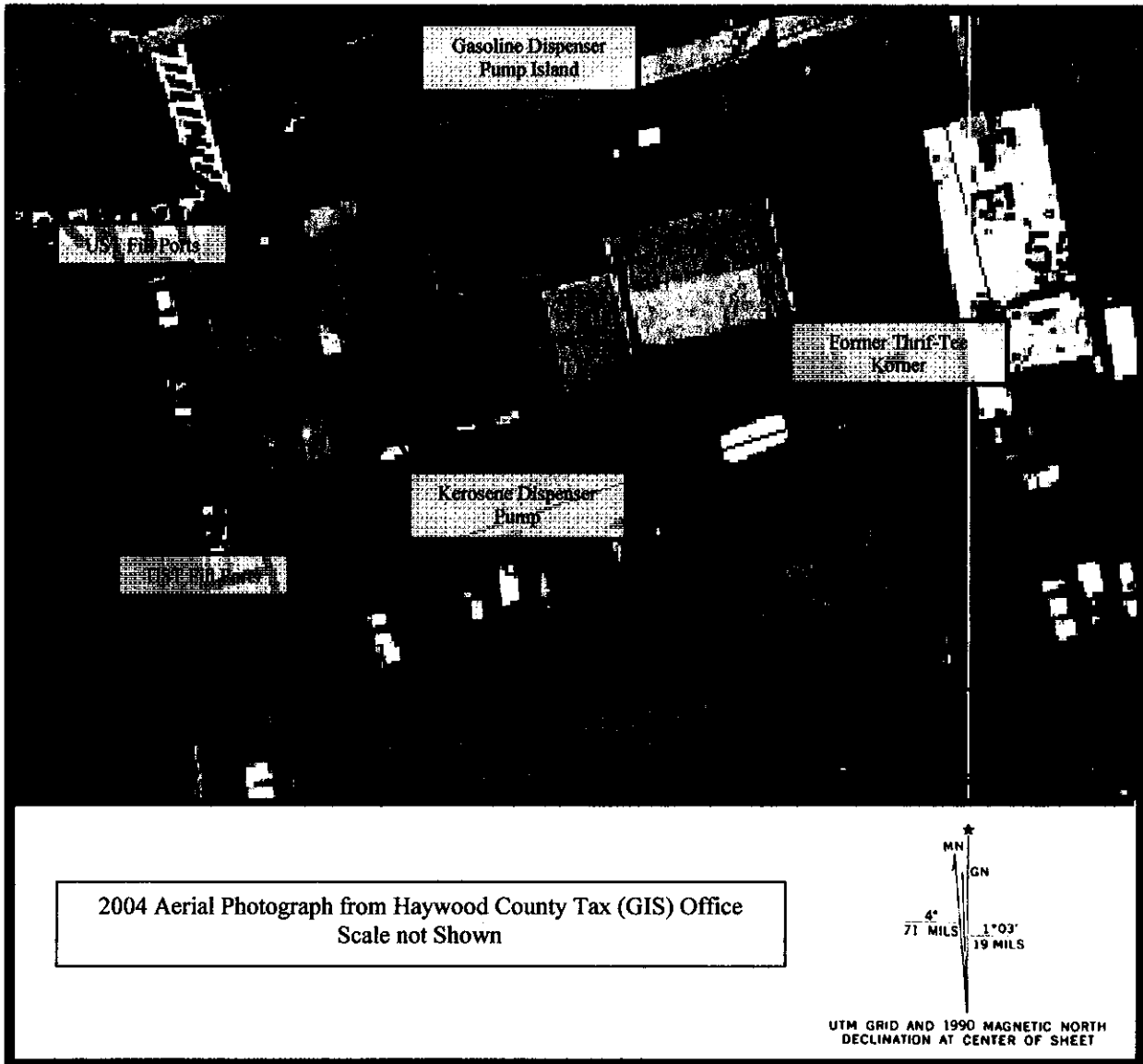


Figure 2
Orthophotograph from Haywood County Tax Office
Former Thrif-Tee Korner
89 Park Street
Canton, NC

PARK STREET



SCALE

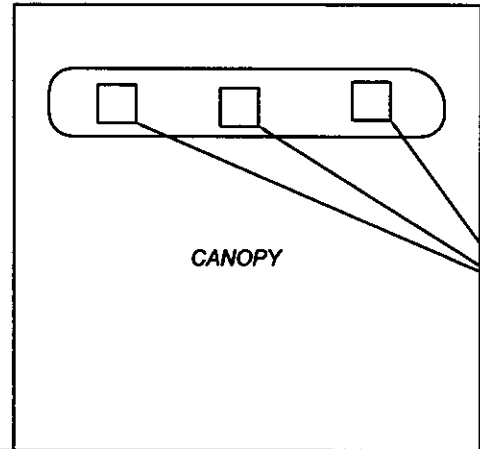
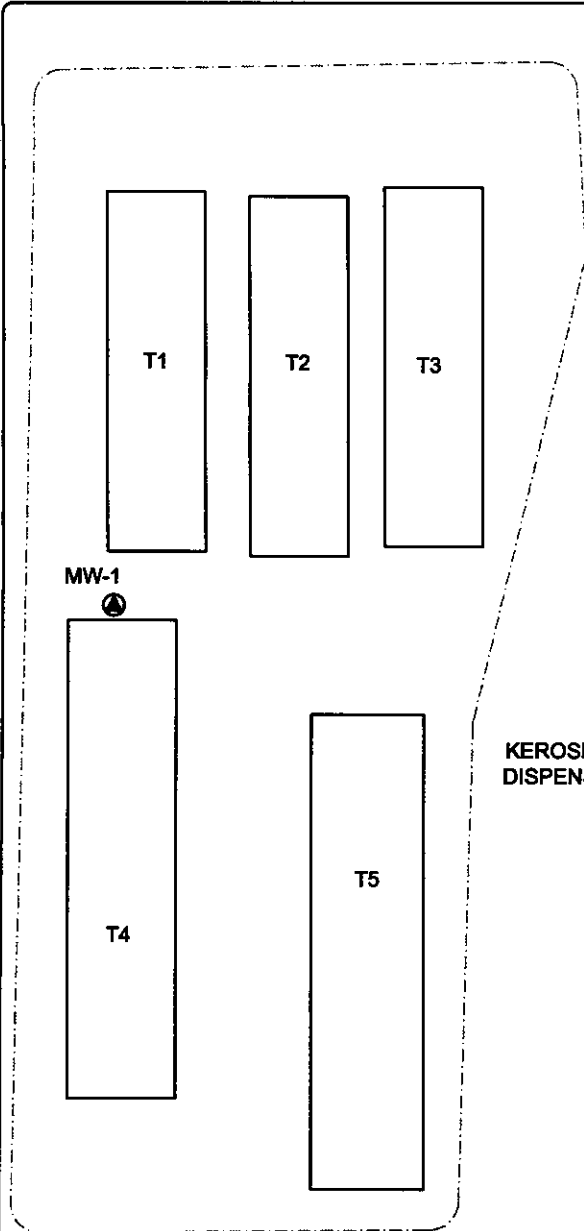


LEGEND

----- Excavation Boundary

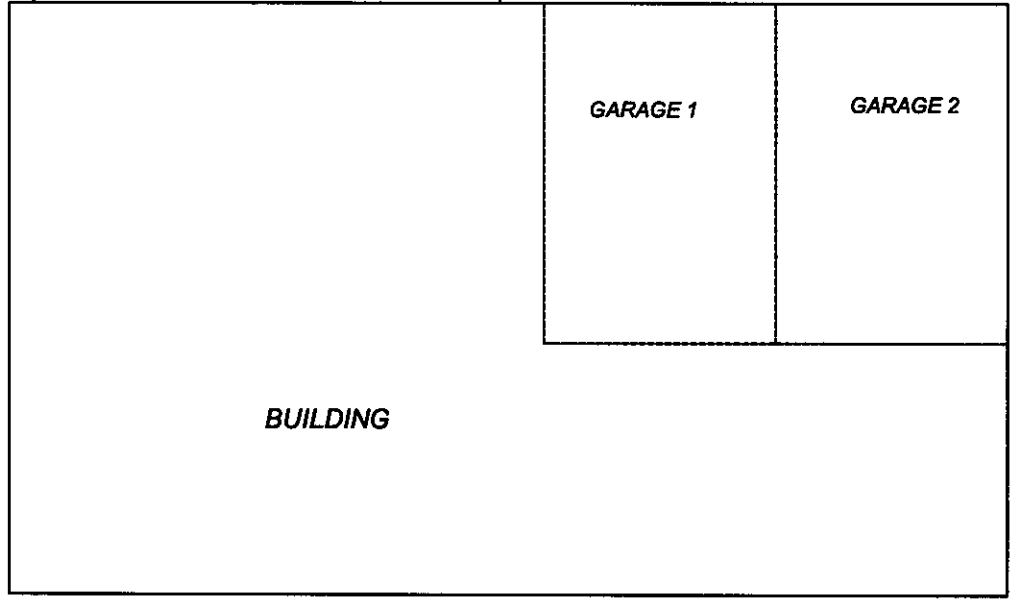
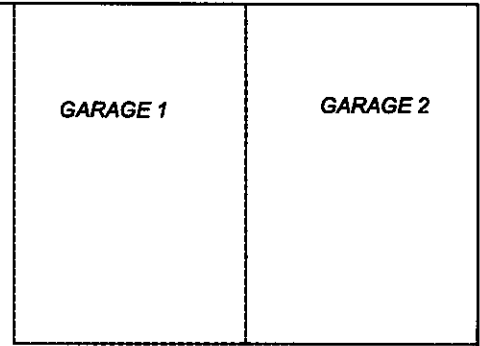
⊙ Monitoring Well

SORRELLS STREET



GAS DISPENSERS

KEROSENE DISPENSER




BUILDING

ASPHALT

NOTES

1. All site structures were removed by March 1, 2006.
1. Soil sample MW-1 was collected on February 20, 2006 at a depth of 9-10 feet below ground surface (BGS).
1. T-1 was a 3,000-gallon kerosene tank.
4. T-2 and T-3 were 3,000-gallon gasoline tanks.
5. T-4 and T-5 were 4,000-gallon gasoline tanks.

 1580 Plegah Drive - Canton, NC 28716		FIGURE 3 SITE MAP Thriftee Korner Canton, North Carolina		
		DRAWN BY: L. Whitt	PROJECT NO. 6-TOC01-1A	DATE March 20, 2006
APPROVED BY: D. Williams		FILE NAME ..\Thriftee Korner\LSA\6-TOC01-1A Maps.dwg		

PARK STREET



SCALE

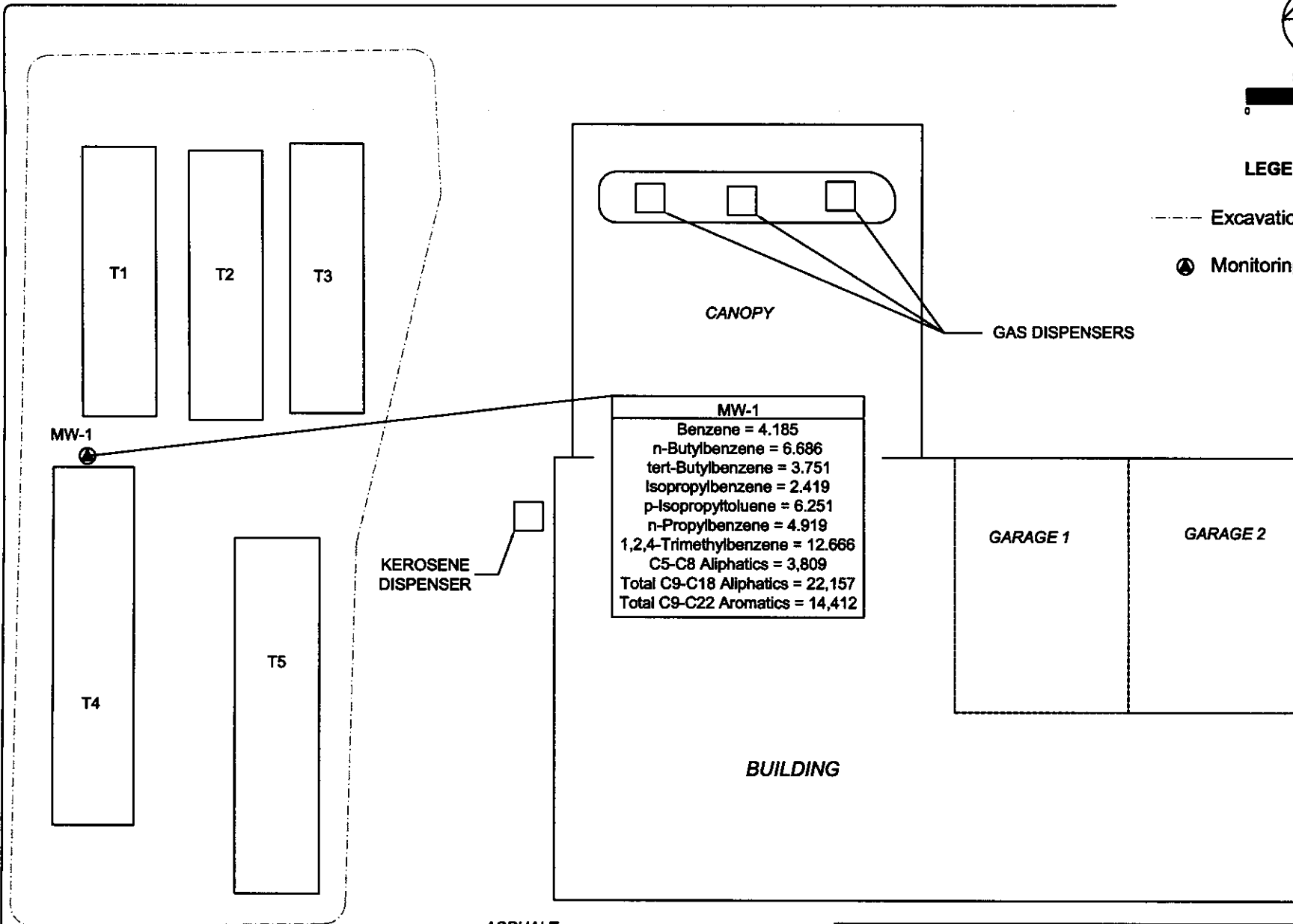


LEGEND

--- Excavation Boundary

⊙ Monitoring Well

SORRELLS STREET



NOTES

1. The soil sample from MW-1 was collected on February 20, 2006 from a depth of 9 to 10 feet below the ground surface (BGS).
2. This map only presents results in violation of the UST Maximum Soil Concentration.
3. All results are in mg/kg.

 Mountain Environmental Group 1580 Pilegh Drive - Canton, NC 28716	FIGURE 4 SOIL ANALYTICAL RESULTS Thriftee Korner Canton, North Carolina		
	DRAWN BY: L. Whitt	PROJECT NO. 6-TOC01-1A	DATE March 20, 2006
APPROVED BY: D. Williams	FILE NAME ..\Thriftee Korner\UST Closure\Figures\TOC01-1A Maps.dwg		

Limited Site Assessment Risk Classification and Land Use Form

Former Thrif-Tee Korner

Part I - Groundwater/Surface water/Vapor Impacts

High Risk

1. Has the discharge or release contaminated any water supply well including any used for non-drinking purposes? YES NO

If yes, explain. _____

2. Is a water supply well used for drinking water located within 1000 feet of the source area of the discharge or release? YES NO

The site and vicinity are serviced by the Town of Canton Municipal Water Supply

3. Is a water supply well used for any purpose (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the discharge or release? YES NO

4. Does the groundwater within 500 feet of the source area of the discharge or release have the potential for future use in that there is no other source of water supply other than the groundwater? YES NO

Explain. _____

5. Do vapors from the discharge or release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety, or the environment? YES NO

If yes, explain. _____

6. Are there any other factors that would cause the discharge or release to pose an imminent danger to public health, public safety, or the environment? YES NO

If yes, explain. _____

Intermediate Risk

7. Is a surface water body located within 500 feet of the source area of the discharge or release? YES NO

The Pigeon River is located approximately 50 feet west of the site.

If yes, does the maximum groundwater contamination concentration exceed the surface water quality standards and criteria found in 15 NCAC 2B .0200 by a factor of 10?

- YES NO

Free product was found in MW-1.

8. Is the source area of the discharge or release located within a designated wellhead protection area as defined in 42 USC 300h-7(e)? YES NO

If yes, explain.

9. Is the discharge or release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the department in 1985? YES NO

If yes, is the source area of the discharge or release located in an area in which there is recharge to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water? YES NO

If yes, explain.

10. Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels established (see Table 7) by the Department? YES NO

Free product was found in MW-1.

Part II - Land Use

Property Containing Source Area of Discharge or Release

The questions below pertain to the property containing the source area of the release:

1. Does the property contain one or more primary or secondary residences (permanent or temporary)? YES NO

Explain. _____

2. Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? YES NO

Explain. _____

3. Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? YES NO

Explain. The former Thrif-Tee Korner Service Station was removed and is currently a vacant lot.

4. Do children visit the property? YES NO

Explain. Children could visit the property as it is a vacant lot and accessible on all sides.

5. Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel, or both)? YES NO

Explain. _____

6. Do pavement, buildings, or other structures cap the contaminated soil? YES NO

Explain. _____

If yes, what mechanisms are in place or can be put in place to ensure the contaminated soil will remain capped in the foreseeable future? _____

7. What is the zoning status of the property? The site zoning is designated as C-2
(General Business).

8. Is the use of the property likely to change in the next 20 years? YES NO
Explain. The former Thrif-Tee Korner Service Station has been removed and the
site is currently a vacant lot. Future plans for the property include the possibility of a city
park.

Property Surrounding the Area of Discharge or Release

The questions below pertain to the area within 1500 feet of the source area of the discharge or release (excludes property containing source area of the release):

11. What is the distance from the source area of the release to the nearest primary or secondary residence (permanent or temporary)? The nearest residential home was
observed to be approximately 525 feet south of the site.

12. What is the distance from the source area of the release to the nearest school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? Bethel Missionary Baptist Church/School is located approximately
500 feet northwest of the site.

13. What is the zoning status of properties in the surrounding area? The surrounding area
is zoned as C-2 (General Business), C-1 (Central Business), R-2 (General Residential),
R-1 (Single Family), and I-2 (Heavy Industrial).

14. Briefly characterize the use and activities of the land in the surrounding area. The
surrounding area is a mixture of commercial and retail properties, residential properties,
and a paper production factory designated as heavy industrial.

Change 1
August 2002

Figure 18

Water Supply Well Information Survey

(This line to be completed by Responsible Party or their representative)	
Incident Number: 28364	Incident Name: Thrif-Tee Corner
Please Provide the Following Information (to the best of your knowledge)	
Name and telephone number of person completing the survey <u>DAVID MARKOFF 952-5916</u>	
Address of property receiving survey <u>63 Park Street Canton NC</u>	
City _____ County _____	
What is the source of your drinking water? <u>Public Water</u> / Water Supply Well / Stream Intake / Other (please explain below)	
Is there a water supply well on this property? Yes <u>No</u> - If "No" disregard remaining questions and return survey	
Name and address of owner(s) of property with water supply well	
How many water supply wells are on your property?	
What is the well(s) used for? (check all that apply) Drinking _____ Irrigation _____ Swimming Pool _____	
Water Livestock _____ Other (specify) _____ You do not use the Well _____	
How many residences are connected to the well (list addresses below)?	
How deep is the well(s)?	Date well was installed?
What is the casing depth of the well(s)?	
What is the screen interval of the well(s)?	
Additional water supply well information:	
(This part to be completed by Responsible Party or their representative)	
Please return completed survey to <u>Mountain Environmental Group</u> by <u>April 3, 2006</u> using one of the following methods:	
1. Fax to	<u>(828)648-1566</u>
2. Mail to	<u>1560 Pisgah Drive Canton, NC 28716</u>
3. Telephone	<u>(828)648-5556 or 1-800-261-0031</u>
4. E-mail to	<u>bbauer@mountainenvironmental.com</u>
If you have any questions, please contact Mountain Environmental Services, Inc. Office # (828)68-5556	

Figure 18 Water Supply Well Information Survey

(This line to be completed by Responsible Party or their representative)	
Incident Number: 28364	Incident Name: Thrif-Tee Corner
Please Provide the Following Information (to the best of your knowledge)	
Name and telephone number of person completing the survey <u>Thomas G. Long 648-1349</u>	
Address of property receiving survey <u>Bethel Christian Community, Bethel Family C.C.</u>	
City <u>Canton N.C.</u>	County <u>Wayne</u>
What is the source of your drinking water? (<u>Public Water</u> / Water Supply Well / Stream Intake / Other (please explain below) <u>Public water - Canton municipal city water</u>)	
Is there a water supply well on this property? Yes (<u>No</u>) If "No" disregard remaining questions and return survey	
Name and address of owner(s) of property with water supply well	
How many water supply wells are on your property?	
What is the well(s) used for? (check all that apply) Drinking <input type="checkbox"/> , Irrigation <input type="checkbox"/> , Swimming Pool <input type="checkbox"/> , Water Livestock <input type="checkbox"/> , Other (specify) <input type="checkbox"/> , You do not use the Well <input type="checkbox"/>	
How many residences are connected to the well (list addresses below)?	
How deep is the well(s)?	Date well was installed?
What is the casing depth of the well(s)?	
What is the screen interval of the well(s)?	
Additional water supply well information:	
(This part to be completed by Responsible Party or their representative)	
Please return completed survey to <u>Mountain Environmental Group</u> by <u>April 3, 2006</u> using one of the following methods:	
1. Fax to	<u>(828)648-1566</u>
2. Mail to	<u>1560 Pisgah Drive Canton, NC 28716</u>
3. Telephone	<u>(828)648-5556 or 1-800-261-0031</u>
4. E-mail to	<u>bbauer@mountainenvironmental.com</u>
If you have any questions, please contact Mountain Environmental Services, Inc. Office # (828)68-5556	

Change 1
August 2002

Figure 18 Water Supply Well Information Survey

(This line to be completed by Responsible Party or their representative)	
Incident Number: 28364	Incident Name: Thrif-Tee Corner
Please Provide the Following Information (to the best of your knowledge)	
Name and telephone number of person completing the survey <u>DARYL GAUSKOPP 828-648-7263</u>	
Address of property receiving survey <u>32 MAIN STREET</u>	
City <u>CANTON, NC 28716</u>	County <u>HAYWOOD</u>
What is the source of your drinking water? Public Water / Water Supply Well / Stream Intake / Other (please explain below) <u>Not Applicable. The building in question was demolished the week of MARCH 11. Building 30 MAIN STREET WAS ALSO DEMOLISHED and the ABC Store (40 MAIN STREET) is on Public Water.</u>	
Is there a water supply well on this property? Yes <input type="radio"/> No <input checked="" type="radio"/> If "No" disregard remaining questions and return survey	
Name and address of owner(s) of property with water supply well	
How many water supply wells are on your property?	
What is the well(s) used for? (check all that apply) Drinking <input type="checkbox"/> Irrigation <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Water Livestock <input type="checkbox"/> Other (specify) <input type="checkbox"/> You do not use the Well <input type="checkbox"/>	
How many residences are connected to the well (list addresses below)?	
How deep is the well(s)?	Date well was installed?
What is the casing depth of the well(s)?	
What is the screen interval of the well(s)?	
Additional water supply well information:	
(This part to be completed by Responsible Party or their representative)	
Please return completed survey to <u>Mountain Environmental Group</u> by <u>April 3, 2006</u> using one of the following methods:	
1. Fax to	<u>(828)648-1566</u>
2. Mail to	<u>1560 Pisgah Drive Canton, NC 28716</u>
3. Telephone	<u>(828)648-5556 or 1-800-261-0031</u>
4. E-mail to	<u>hbauer@mountainenvironmental.com</u>
If you have any questions, please contact Mountain Environmental Services, Inc. Office # (828)68-5556	

60-TDC01-1A

Figure 18 Water Supply Well Information Survey

(This line to be completed by Responsible Party or their representative)	
Incident Number: 28364	Incident Name: Thrif-Tee Corner
Please Provide the Following Information (to the best of your knowledge)	
Name and telephone number of person completing the survey <u>James A. Glaugue 828-646-2028</u>	
Address of property receiving survey <u>41 Main Street (Blue Ridge Paper Products Inc)</u>	
City <u>Canton, NC 28716</u> County <u>Haywood</u>	
What is the source of your drinking water? <u>Public Water</u> / Water Supply Well / Stream Intake / Other (please explain below)	
Is there a water supply well on this property? Yes <input type="radio"/> No <input checked="" type="radio"/> If "No" disregard remaining questions and return survey	
Name and address of owner(s) of property with water supply well	
How many water supply wells are on your property?	
What is the well(s) used for? (check all that apply) Drinking <input type="checkbox"/> Irrigation <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Water Livestock <input type="checkbox"/> Other (specify) <input type="checkbox"/> You do not use the Well <input type="checkbox"/>	
How many residences are connected to the well (list addresses below)?	
How deep is the well(s)?	Date well was installed?
What is the casing depth of the well(s)?	
What is the screen interval of the well(s)?	
Additional water supply well information:	
(This part to be completed by Responsible Party or their representative)	
Please return completed survey to <u>Mountain Environmental Group</u> by <u>April 3, 2006</u> using one of the following methods:	
1. Fax to	(828)648-1566
2. Mail to	1560 Pisgah Drive Canton, NC 28716
3. Telephone	(828)648-5556 or 1-800-261-0031
4. E-mail to	hbauer@mountainenvironmental.com
If you have any questions, please contact Mountain Environmental Services, Inc. Office # (828)68-5556	

Figure 18 Water Supply Well Information Survey

(This line to be completed by Responsible Party or their representative)	
Incident Number: 28364	Incident Name: Thrif-Tee Corner
Please Provide the Following Information (to the best of your knowledge)	
Name and telephone number of person completing the survey <u>Teressa Anderson</u>	
Address of property receiving survey <u>16 Adams St</u>	
City <u>Canton</u>	County <u>Haywood</u>
What is the source of your drinking water? <u>Public Water</u> / Water Supply Well / Stream Intake / Other (please explain below)	
Is there a water supply well on this property? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If "No" disregard remaining questions and return survey	
Name and address of owner(s) of property with water supply well	
How many water supply wells are on your property?	
What is the well(s) used for? (check all that apply) Drinking <input type="checkbox"/> , Irrigation <input type="checkbox"/> , Swimming Pool <input type="checkbox"/> , Water Livestock <input type="checkbox"/> , Other (specify) _____, You do not use the Well <input type="checkbox"/>	
How many residences are connected to the well (list addresses below)?	
How deep is the well(s)?	Date well was installed?
What is the casing depth of the well(s)?	
What is the screen interval of the well(s)?	
Additional water supply well information:	
(This part to be completed by Responsible Party or their representative)	
Please return completed survey to <u>Mountain Environmental Group</u> by <u>April 3, 2006</u> using one of the following methods:	
1. Fax to	<u>(828)648-1566</u>
2. Mail to	<u>1560 Pisgah Drive</u> <u>Canton, NC 28716</u>
3. Telephone	<u>(828)648-5556 or 1-800-261-0031</u>
4. E-mail to	<u>bbauer@mountainenvironmental.com</u>
If you have any questions, please contact Mountain Environmental Services, Inc. Office # (828)68-5556	

Change 1
August 2002

Figure 18 Water Supply Well Information Survey

(This line to be completed by Responsible Party or their representative)	
Incident Number: 28364	Incident Name: Thrif-Tee Corner
Please Provide the Following Information (to the best of your knowledge)	
Name and telephone number of person completing the survey <u>A.B. Matthews, Asst Mgr. (28)648-2323</u>	
Address of property receiving survey <u>58 Park</u>	
City <u>Canton</u>	County <u>Haywood</u>
What is the source of your drinking water? <u>Public Water</u> / Public Water / Water Supply Well / Stream Intake / Other (please explain below)	
Is there a water supply well on this property? Yes <input type="checkbox"/> <u>No</u> If "No" disregard remaining questions and return survey	
Name and address of owner(s) of property with water supply well	
How many water supply wells are on your property?	
What is the well(s) used for? (check all that apply) Drinking <input type="checkbox"/> Irrigation <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Water Livestock <input type="checkbox"/> Other (specify) <input type="checkbox"/> You do not use the Well <input type="checkbox"/>	
How many residences are connected to the well (list addresses below)?	
How deep is the well(s)?	
Date well was installed?	
What is the casing depth of the well(s)?	
What is the screen interval of the well(s)?	
Additional water supply well information:	
(This part to be completed by Responsible Party or their representative)	
Please return completed survey to <u>Mountain Environmental Group</u> by <u>April 3, 2006</u> using one of the following methods:	
1. Fax to	<u>(828)648-1566</u>
2. Mail to	<u>1560 Pisgah Drive Canton, NC 28716</u>
3. Telephone	<u>(828)648-5556 or 1-800-261-0031</u>
4. E-mail to	<u>bbauer@mountainenvironmental.com</u>
If you have any questions, please contact Mountain Environmental Services, Inc. Office # (828)68-5556	

Figure 18 Water Supply Well Information Survey

(This line to be completed by Responsible Party or their representative)

Incident Number: 28364 Incident Name: Thrif-Tee Corner

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey Canton Moose Lodge 648-9824
Address of property receiving survey 12 Penland Street
City Canton County Hayward

What is the source of your drinking water? Public Water / Water Supply Well / Stream Intake / Other (please explain below)

Is there a water supply well on this property? Yes / No If "No" disregard remaining questions and return survey

Name and address of owner(s) of property with water supply well

How many water supply wells are on your property?
What is the well(s) used for? (check all that apply) Drinking Irrigation Swimming Pool
Water Livestock Other (specify) You do not use the Well

How many residences are connected to the well (list addresses below)?

How deep is the well(s)? _____ Date well was installed? _____
What is the casing depth of the well(s)? _____
What is the screen interval of the well(s)? _____

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)

Please return completed survey to Mountain Environmental Group by April 3, 2006 using one of the following methods:

1. Fax to (828)648-1566
2. Mail to 1560 Pisgah Drive
Canton, NC 28716
3. Telephone (828)648-5556 or 1-800-261-0031
4. E-mail to bbauer@mountainenvironmental.com

If you have any questions, please contact Mountain Environmental Services, Inc. Office # (828)68-5556



LOG OF BOREHOLE: MW-1

PROJECT: Thrif-Tee Korner
 LOCATION: Canton, NC
 JOB NUMBER: 5-TOC01-1C
 LOGGED BY: Brian Bauer
 DATE DRILLED: 2/20/2006

DRILLING CO.: Geologic Exploration
 DRILLING METHOD: 4.25" ID HSA
 ELEVATION:
 DEPTH TO WATER: 13.18
 Page 1 of 1

SUBSURFACE PROFILE

Depth	Symbol	Description	Interval	COMMENTS/REMARKS	WELL DIAGRAM
0		Ground Surface			
0.0	ABC Stone- Fill Material		0.0		
0.5	Black Fill Sand, Strong Petroleum Odor		0.5		
10.0	Black, Micaceous, Sandy Clay, wet, strong petroleum odor		10.0		
18.0			18.0	Auger refusal at 18 feet BGS - Monitoring well set at 18 feet BGS	

WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources - Division of Water Quality

WELL CONTRACTOR (INDIVIDUAL) NAME (print) MARK GETTYS CERTIFICATION # 2345
 WELL CONTRACTOR COMPANY NAME GEOLOGIC EXPLORATION, INC. PHONE # (704) 872-7686
 STATE WELL CONSTRUCTION PERMIT# _____ ASSOCIATED WQ PERMIT# _____
 (if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
 Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:
 Nearest Town: CANTON County HAYWOOD
89 PARK STREET
 (Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
 Ridge Slope Valley Flat
 (check appropriate box)
 Latitude/longitude of well location

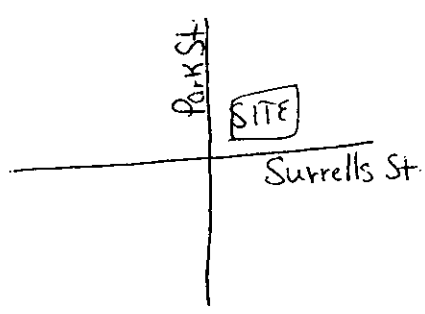
3. OWNER: THE TOWN OF CANTON
 Address 58 PARK STREET
 (Street or Route No.)
CANTON NC 28716
 City or Town State Zip Code

(degrees/minutes/seconds)
 Latitude/longitude source: GPS Topographic map
 (check box)

DEPTH		DRILLING LOG
From	To	Formation Description
0.0	5.0	GRAVEL FILL/GREY SILT
5.0	15.0	GREY SANDY SILT
15.0	18.0	GREY ROCKY SILT

4. DATE DRILLED 02/20/06
 5. TOTAL DEPTH: 18.0 FEET
 6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: 12.0 FT.
 (Use "+" if Above Top of Casing)
 8. TOP OF CASING IS 0.0 FT. Above Land Surface*
 *Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
 9. YIELD (gpm): N/A METHOD OF TEST N/A
 10. WATER ZONES (depth): N/A

LOCATION SKETCH
 Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



11. DISINFECTION: Type N/A Amount _____
 12. CASING: Wall Thickness _____

From	Depth	To	Diameter	or Weight/Ft.	Material
0.0	3.0	2	INCH	SCH 40	PVC

13. GROUT: Method _____

From	Depth	To	Material
0.0	1.0	Portland	Bentonite

14. SCREEN: Material _____

From	Depth	To	Diameter	Slot Size	Material
3.0	18.0	2.0	in.	.010	in.

15. SAND/GRAVEL PACK: Material _____

From	Depth	To	Size	Material
2.0	18.0	20-40	Ft.	FINE SILICA SAND

16. REMARKS: MW-1 BENTONITE SEAL FROM 1.0 TO 2.0 FEET

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Mark H. Gettys 2/28/06
 SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Attn: Information Management, 1617 Mail Service Center - Raleigh, NC 27699-1617, Phone No. (919) 733-7015, within 30 days.



8/10 3:00 PM 2/20/06

Client : Mountain Environmental Services
 1560 Pisgah Drive
 Canton, NC 28716
 Attention: Mr. Doug Williams
 Date Received: 2/24/2006
 Report Date: 15-Mar-06
 Sample Date: 20-Feb-06
 BRL #: BRL-2006-0153
 Lab Sample ID: LSID-2006-00992
 Client Sample ID: MW-1 10'

Parameter	Result	MQL	Unit	Method	Analysis Time	Analysis Date	Analyst
Benzene	4185	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Bromobenzene	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Bromochloromethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Bromodichloromethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Bromoform	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Bromomethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Butylbenzene, n-	6686	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Butylbenzene, sec-	1006	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Butylbenzene, tert-	3751	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Carbon Tetrachloride	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Chlorobenzene	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Chloroethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Chloroform	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Chloromethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Chlorotoluene, 2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Chlorotoluene, 4-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dibromo-3-chloropropane, 1,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dibromochloromethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM

Reported By:

K.S. Matheson, S.J. Johnson

* Concentrations are below Minimum Quantification Limit except where noted.

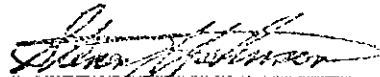
NC Laboratory Certificate No. 275



Client : Mountain Environmental Services
 1560 Pisgah Drive
 Canton, NC 28716
Attention: Mr. Doug Williams
Date Received: 2/24/2006
Report Date: 15-Mar-06
Sample Date: 20-Feb-06
BRL #: BRL-2006-0153
Lab Sample ID: LSID-2006-00992
Client Sample ID: MW-1 10'

Parameter	Result	MQL	Unit	Method	Analysis Time	Analysis Date	Analyst
Dibromoethane, 1,2- (EDB)	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dibromomethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichlorobenzene, 1,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichlorobenzene, 1,3-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichlorobenzene, 1,4-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichlorodifluoromethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloroethane, 1,1-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloroethane, 1,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloroethene, 1,1-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloroethene, cis-1,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloroethene, trans-1,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloropropane, 1,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloropropane, 1,3-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloropropane, 2,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloropropene, 1,1-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloropropene, cis-1,3-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Dichloropropene, trans-1,3-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Ethyl Benzene	2690	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM

Reported By:


 K.S. Matheson, S.J. Johnson

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275



Client : Mountain Environmental Services
 1560 Pisgah Drive
 Canton, NC 28716
Attention: Mr. Doug Williams
Date Received: 2/24/2006
Report Date: 15-Mar-06
Sample Date: 20-Feb-06
BRL #: BRL-2006-0153
Lab Sample ID: LSID-2006-00992
Client Sample ID: MW-1 10'

Parameter	Result	MLL	Unit	Method	Analysis Time	Analysis Date	Analyst
Hexachlorobutadiene	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
IPE	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Isopropylbenzene	2419	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Isopropyltoluene, p-	6251	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Methylene Chloride	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
MTBE	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Naphthalene	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Propylbenzene, n-	4919	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Styrene	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Tetrachloroethane, 1,1,1,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Tetrachloroethane, 1,1,2,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Tetrachloroethene	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Toluene	2690	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Trichlorobenzene, 1,2,3-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Trichlorobenzene, 1,2,4-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Trichloroethane, 1,1,1-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Trichloroethane, 1,1,2-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Trichloroethene	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM

Reported By:

K.S. Matheson, S.J. Johnson

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NC Laboratory Certificate No. 275



Client : Mountain Environmental Services
 1560 Pisgah Drive
 Canton, NC 28716
Attention: Mr. Doug Williams
Date Received: 2/24/2006
Report Date: 15-Mar-06
Sample Date: 20-Feb-06
BRL #: BRL-2006-0153
Lab Sample ID: LSID-2006-00992
Client Sample ID: MW-1 10'

Parameter	Result	ML	Unit	Method	Analysis Time	Analysis Date	Analyst
Trichlorofluoromethane	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Trichloropropane, 1,2,3-	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Trimethylbenzene, 1,2,4-	12666	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Trimethylbenzene, 1,3,5-	1712	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Vinyl Chloride	*	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Xylene, o-	1549	1005	dry ug/kg	5035/8021	21:24	3/6/2006	KSM
Xylenes, m & p-	1142	2210	dry ug/kg	5035/8021	21:24	3/6/2006	KSM

Reported By:

K.S. Matheson, S.J. Johnson

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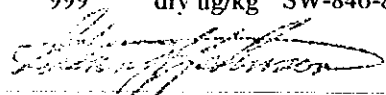
NC Laboratory Certificate No. 275



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 1560 Pisgah Drive
 Canton, NC 28716
Attention: Mr. Doug Williams
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Sample Date: 20-Feb-06
BRL #: BRL-2006-0153
Lab Sample ID: LSID-2006-00993
Client Sample ID: MW-1 10'

Parameter	Result	MQL	Unit	Method	Analysis Time	Analysis Date	Analyst
1,2,4-Trichlorobenzene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
1,2-Dichlorobenzene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
1,3-Dichlorobenzene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
1,4-Dichlorobenzene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2,4,5-Trichlorophenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2,4,6-Trichlorophenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2,4-Dichlorophenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2,4-Dimethylphenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2,4-Dinitrophenol	*	1450	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2,4-Dinitrotoluene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2,6-Dinitrotoluene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2-Chloronaphthalene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2-Chlorophenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2-Methylnaphthalene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2-Methylphenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2-Nitroaniline	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
2-Nitrophenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
3,3'-Dichlorobenzidine	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM

Reported By: _____


 K.S. Matheson, S.J. Johnson

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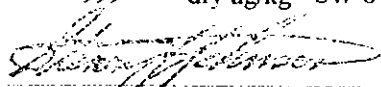
NC Laboratory Certificate No. 275



Client : Mountain Environmental Services
 1560 Pisgah Drive
 Canton, NC 28716
Attention: Mr. Doug Williams
Date Received: 2/24/2006
Report Date: 15-Mar-06
Sample Date: 20-Feb-06
BRL #: BRL-2006-0153
Lab Sample ID: LSID-2006-00993
Client Sample ID: MW-1 10'

Parameter	Result	MQL	Unit	Method	Analysis Time	Analysis Date	Analyst
3-Nitroaniline	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
4-Bromophenyl-phenylether	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
4-Chloro-3-methylphenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
4-Chloroaniline	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
4-Chlorophenyl-phenylether	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
4-Methylphenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
4-Nitroaniline	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
4-Nitrophenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Acenaphthene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Acenaphthylene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Anthracene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Benzo[a]anthracene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Benzo[a]pyrene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Benzo[b]fluoranthene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Benzo[g,h,i]perylene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Benzo[k]fluoranthene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
bis (2-Chloroethoxy) ether	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
bis (2-Chloroethyl) ether	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM

Reported By:


 K.S. Matheson, S.J. Johnson

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Attention: Mr. Doug Williams
Date Received: 2/24/2006
Report Date: 15-Mar-06
Sample Date: 20-Feb-06
BRL #: BRL-2006-0153
Lab Sample ID: LSID-2006-00993
Client Sample ID: MW-1 10'

Parameter	Result	ML	Unit	Method	Analysis Time	Analysis Date	Analyst
bis (2-Chloroisopropyl) ether	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
bis (2-Ethylhexyl) phthalate	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Butylbenzylphthalate	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Chrysene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Di-n-butylphthalate	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Di-n-octylphthalate	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Dibenz[a,h]anthracene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Dibenzofuran	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Diethylphthalate	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Dimethylphthalate	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Fluoranthene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Fluorene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Hexachlorobenzene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Hexachlorobutadiene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Hexachlorocyclopentadiene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Hexachloroethane	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Indeno[1,2,3-cd]pyrene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Isophorone	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM

Reported By:

K.S. Matheson
 K.S. Matheson, S.J. Johnson

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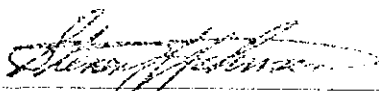
NC Laboratory Certificate No. 275



Client : Mountain Environmental Services
 1560 Pisgah Drive
 Canton, NC 28716
Attention: Mr. Doug Williams
Date Received: 2/24/2006
Report Date: 15-Mar-06
Sample Date: 20-Feb-06
BRL #: BRL-2006-0153
Lab Sample ID: LSID-2006-00993
Client Sample ID: MW-1 10'

Parameter	Result	MQL	Unit	Method	Analysis Time	Analysis Date	Analyst
N-Nitroso-di-n-propylamine	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
N-Nitrosodimethylamine	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
N-Nitrosodiphenylamine	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Naphthalene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Nitrobenzene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Pentachlorophenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Phenanthrene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Phenol	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Pyrene	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM
Pyridine	*	999	dry ug/kg	SW-846-8270	15:01	3/8/2006	KSM

Reported By:


 K.S. Matheson, S.J. Johnson

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 NC Laboratory Certificate No. 275



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 1560 Pisgah Drive
 Canton, NC 28716
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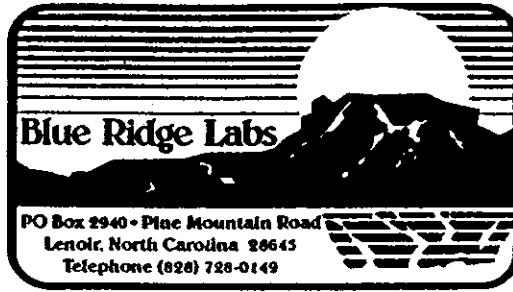
Parameter	Result	MQL	Unit	Method	Analysis Time	Analysis Date	Analyst
EPH C11-C22 Aromatics	350	120	dry mg/kg	VPH/EPH Soi	14:01	3/6/2006	Pace
EPH C19-C36 Aliphatics	16	12	dry mg/kg	VPH/EPH Soi	14:01	3/6/2006	Pace
EPH C9-C18 Aliphatics	1500	120	dry mg/kg	VPH/EPH Soi	14:01	3/6/2006	Pace
VPH C5-C8 Aliphatics	3809***	72.5	dry mg/kg	VPH/EPH Soi	9:38	3/7/2006	KSM
VPH C9-C10 Aromatics	14,046***	70	dry mg/kg	VPH/EPH Soi	9:38	3/7/2006	KSM
VPH C9-C12 Aliphatics	16,848***	70	dry mg/kg	VPH/EPH Soi	9:38	3/7/2006	KSM

Reported By: _____

K.S. Matheson, S.J. Johnson

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275



Client : Mountain Environmental Services
 1560 Pisgah Drive
 Canton, NC 28716
Attention: Mr. Doug Williams
Date Received: 2/24/2006
Report Date: 15-Mar-06
Sample Date:
BRL #: BRL-2006-0153
Lab Sample ID: LSID-2006-00995
Client Sample ID: Trip Blank

Parameter	Result	ML	Unit	Method	Analysis Time	Analysis Date	Analyst
VPH C5-C8 Aliphatics	*	2.9	dry mg/kg	MADEP-VPH	22:34	3/6/2006	KSM
VPH C9-C10 Aromatics	*	2.8	dry mg/kg	MADEP-VPH	22:34	3/6/2006	KSM
VPH C9-C12 Aliphatics	*	2.8	dry mg/kg	MADEP-VPH	22:34	3/6/2006	KSM

Reported By:

K.S. Matheson, S.J. Johnson

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

BLUE RIDGE LABS

VPH (Aliphatics/Aromatics) REPORTING FORM

CLIENT: Mountain Environmental
 PROJECT:

NC LAB CERTIFICATION # 275
 SITE LOCATION:

SAMPLE INFORMATION AND ANALYTICAL RESULTS

Sample ID	995	994				
Sample Matrix	Methanol TB	Soil				
Collection Option (Soil)*	1	1				
Date Collected	2/20/06	2/20/06				
Date Received	2/24/06	2/24/06				
Date Extracted	3/6/06	3/7/06				
Date Analyzed	3/6/06	3/7/06				
Dry Weight	NA	4.6				
Dilution Factor	1.0	25.0				
C5-C8 Aliphatics**	< 2.9 mg/kg	3809 mg/kg	***			
C9-C12 Aliphatics**	< 2.8 mg/kg	16848 mg/kg	***			
C9-C10 Aromatics**	< 2.8 mg/kg	14046 mg/kg	***			
Surrogate % Recovery-PID	103.4	96.5				
Surrogate % Recovery-FID	104.4	101.8				

*Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand) Option 3 = Field weight of soil

**Range results should exclude any surrogates, internal standards, or Target PAH analytes

*** Estimated value, beyond linear range ^a No trip blank submitted ^b Observed in method or trip blank

	C5-C8 Aliphatic	C9-C12 Aliphatic	C9-C10 Aromatic
% Recovery-Fortified Blank (Spike)-PID	NA	NA	91.5 %
Relative % Difference-PID Dup	NA	NA	1.3 %
Percent Recovery-Fortified Blank (Spike)-FID	96.1 %	95.3 %	NA
Relative % Difference-FID Dup	0.9 %	0.2 %	NA

BLUE RIDGE LABS

VPH REPORTING FORM

Initial Calibration Date: 12/28/05

Sample Identification: 995, 994

Calibration Ranges and Limits

RANGE	MDL	ML	RL
C5-C8 Aliphatics	0.90 mg/kg	2.90 mg/kg	2.9 mg/kg
C9-C12 Aliphatics	0.90 mg/kg	2.80 mg/kg	2.8 mg/kg
C9-C10 Aromatics	0.90 mg/kg	2.80 mg/kg	2.8 mg/kg

Note: Please include appropriate units

Method of Quantitation: Curve or Average Response Factor

Calibration Concentration Levels

RANGE	LEVELS	% RSD OR CCC
C5-C8 Aliphatics	2.1 mg/kg	CCC=0.9977
	8.3 mg/kg	
	16.0 mg/kg	
	25.2 mg/kg	
	33.5 mg/kg	
C9-C12 Aliphatics	2.1 mg/kg	CCC= 0.9986
	8.3 mg/kg	
	16.0 mg/kg	
	25.2 mg/kg	
	33.5 mg/kg	
C9-C10 Aromatics	2.1 mg/kg	CCC= 0.9959
	8.3 mg/kg	
	16.0 mg/kg	
	25.2 mg/kg	
	33.5 mg/kg	

Note: Please include appropriate units

Calibration Check Date: 3/6/05

Calibration Check

RANGE	LEVEL	RPD
C5-C8 Aliphatics	14.3 mg/kg	5.2 %
C9-C12 Aliphatics	14.4 mg/kg	4.9 %
C9-C10 Aromatics	14.0 mg/kg	6.1 %

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Pace Analytical Services, Inc.
 9800 Kincey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Pace Analytical Services, Inc.
 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 92113984
 Client Project ID: EPH

Solid results are reported on a dry weight basis

Lab Sample No: 926679788 Project Sample Number: 92113984-001 Date Collected: 02/20/06 14:30
 Client Sample ID: THRIF-TBE Matrix: Soil Date Received: 02/23/06 13:10

Parameters Results Units Report Limit Analyzed By CAS No. Qual ReqLmt

Wet Chemistry

Percent Moisture Method: % Moisture
 Percent Moisture 13.1 % 02/24/06 08:32 TNM

GC Semivolatiles

EPH in Soil by Mass. Method Prep/Method: EPA 3550 / EPH

Aliphatic (C09-C18)	1500	mg/kg	120	03/06/06 14:01	KBS		
Aliphatic (C19-C36)	16.	mg/kg	12.	03/06/06 14:01	KBS		
Aromatic, Adjusted (C11-C12)	350	mg/kg	120	03/06/06 14:01	KBS		
2-Fluorobiphenyl (S)	0	%		03/06/06 14:01	KBS	321-60-8	1
2-Bromonaphthalene (S)	0	%		03/06/06 14:01	KBS	580-13-2	1
Nonatriacontane (S)	40	%		03/06/06 14:01	KBS	7194-86-7	
o-Terphenyl (S)	0	%		03/06/06 14:01	KBS	84-15-1	1
Date Extracted	03/01/06			03/01/06			

REPORT OF LABORATORY ANALYSIS

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Blue Ridge Labs, Inc.

P. O. Box 2940

Lenoir, N.C. 28645

Telephone (828) 728-0149 Fax (828) 728-0131

CHAIN OF CUSTODY RECORD

NPDS Reporting Groundwater

Sanitary Landfill Hazardous Waste

Industrial or QC Non State Reporting

REPORT TO: Brian Bowser
Davis Williams

BILL TO: _____
PROJECT NAME _____
or NUMBER _____
PO #: _____

Sample ID	FIELD				LAB				Sampler Initials	Requested Analysis
	Sample Type	Date	Collection Time & Temp HR:MM °C	Res Chlor Field Check Yes No	Field Dechlor Yes No	Preservatives Lab pH Res Cl P or A	Temp. °C			
MM-1101	SBR	2/21/06	2:30				0.18°C		S2601MTBETIPE, 82270 MADEP VPH/EPY	

RELINQUISHED BY: _____ DATE: 2/21/06 TIME: 11:00am

RECEIVED BY: _____ DATE: 2/21/06 TIME: 1:00cc

Page 1 of 1
REV. 5/5/98

Upon submission of samples, buyer agrees that invoices are due at the time work is completed. Open accounts are due 20 days following the invoice date. A finance charge of 1.5 % per month will be imposed on all past-due accounts. When relinquishing samples to Blue Ridge Labs, buyer authorizes Blue Ridge Labs to perform only the analysis indicated above and also agrees to pay collection and attorneys fees if the account becomes delinquent. BRL reserves the right to deny all QA/QC documentation for any work where payment has not been made. Without payment, BRL reserves be no QA/QC support for the data. BRL also does not guarantee that any work submitted will be accepted that there will regulatory authority, therefore, it is the clients' responsibility to verify the required tests with the regulatory agency. All work for state clients' responsibility to verify the required tests with the regulatory agency.

