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COMPREHENSIVE SITE ASSESSMENT REPORT

MELVIN YARBOROUGH PROPERTY
2205 OAK HILL DRIVE
GREENSBORO, NORTH CAROLINA

MARCH 10, 1995

LEGACY ENVIRONMENTAL SERVICES, INC.



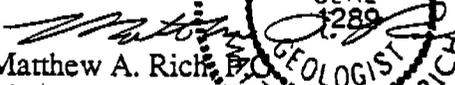
COMPREHENSIVE SITE ASSESSMENT REPORT

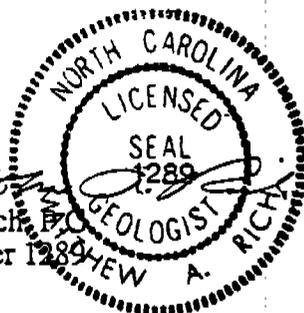
MELVIN YARBOROUGH PROPERTY
2205 OAK HILL DRIVE
GREENSBORO, NORTH CAROLINA

MARCH 10, 1995

PREPARED BY:

LEGACY ENVIRONMENTAL SERVICES, INC.


Matthew A. Rich
License Number 1289



EXECUTIVE SUMMARY

1. Source Information

Type: Low and high boiling point hydrocarbons as heating oil.

Containers: (1) 550 gallon heating oil UST.

Amount: Unknown

2. Initial Abatement Information

Tank Closure: All known underground storage tanks removed February 24, 1993. UST Closure Report submitted to NCDEM March 24, 1993. Initial Site Characterization Report submitted to NCDEM on May 4, 1994.

Soil Removal: No petroleum affected soil has been excavated and removed from this site subsequent to UST removal activities.

Free Product: None Detected.

Water Supply: No known water supply wells are located within a 1,500 foot radius of the site. All surrounding properties have municipal water supply available.

3. Extent of Release and Potentially Affected Receptors

Potential Receptors: A tributary of Buffalo Lake is located approximately 1,500 feet east of the site.

Subsurface Structures: No subsurface utilities were observed in the petroleum impacted area.

Population: Residential.

Maximum Contaminant Concentrations-Soil:TPH concentrations by Method 5030 is 145 ppm; TPH concentrations by Method 3550 is 1,450 ppm from UST closure samples.

Maximum Contaminant Concentrations-Groundwater:

Xylenes	17 ug/l (MW-1)
Naphthalene	15 ug/l (MW-1)
1,2,4-Trimethylbenzene	24 ug/l (MW-1)
(E)-1-Phenyl-1-butene	11 ug/l (MW-1)
1-Methylnaphthalene	17 ug/l (MW-1)
1,5-Dimethylnaphthalene	27 ug/l (MW-1)
2,3-Dimethylnaphthalene	34 ug/l (MW-1)
1,7-Dimethylnaphthalene	20 ug/l (MW-1)
2-Methylnaphthalene	60 ug/l (MW-1)
Lead	45 ug/l (MW-3)

Groundwater Flow-General Flow Direction: east, southeast
Flow Rate: Unknown

4. Conclusions/Recommendations for Corrective Action

The extent of petroleum impacted soil and groundwater have been delineated.

The fluctuation of the groundwater table at the site may have an effect on observed contaminant levels in soil and groundwater samples within the smear zone. Groundwater mounding is evident near the UST excavation during high level conditions.

Laboratory analytical results from a monitor well placed at the source, MW-1, may represent contaminant levels for a perched aquifer and may not be indicative of actual groundwater conditions.

A Corrective Action Plan should be prepared to determine the most effective means of remediation for this site.

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Appendix C:	Standard Operating Procedures
Appendix D:	Soil Analytical Results
Appendix E:	SSE Form

**COMPREHENSIVE SITE ASSESSMENT
MELVIN YARBOROUGH PROPERTY
GREENSBORO, NORTH CAROLINA**

1.0 - SITE HISTORY AND SOURCE CHARACTERIZATION

The Melvin Yarborough property is located at 2205 Oak Hill Drive in Guilford County, Greensboro, North Carolina (Figure 1). The residence formerly operated one 550 gallon heating oil underground storage tank (UST). The UST was excavated and removed from the site on February 24, 1993. Laboratory analytical results of closure samples confirmed a heating oil release had occurred. The Melvin Yarborough property UST Closure Assessment report dated March 24, 1993, prepared by G & H Oil Equipment, Inc. of Greensboro, North Carolina contains additional information regarding the UST closure activities.

An Initial Site Characterization Assessment was performed by installing one groundwater monitoring well (MW-1) in the apparent down-gradient direction, adjacent to the UST excavation area. Laboratory analytical results indicated that soil and groundwater had been impacted by petroleum related constituents. The Melvin Yarborough property's Initial Site Characterization Report dated May 4, 1994, contains additional information regarding this assessment.

2.0 - POTENTIAL RECEPTORS AND MIGRATION PATHWAYS

The Melvin Yarborough property is situated within the drainage basin of Buffalo Lake approximately 7,000 feet to the east (Figure 1). A tributary of Buffalo Lake is located approximately 1,500 feet to the east and the site topography also slopes moderately to the east. The site is located in a residential area of the City of Greensboro.

Surrounding properties are illustrated in Figure 2 and Table 1 lists the adjacent property owners. No known water supply wells are located within a 1,500 radius of the site. Potable water is available from a municipal water source as supplied by the City of Greensboro.

No subsurface utility lines were observed within the petroleum affected area at this facility.

3.0 - SOILS INVESTIGATION

The site is situated in the North Carolina Slate Belt. Local bedrock geology of the region consists of Late Proterozoic to Cambrian aged metamorphosed granitic bedrock. The site specific regolith is saprolitic as derived from the parent bedrock and consists of various textural assemblages including:

Red silt; Dark red to light reddish-brown silts with varying clay content; Red to dark red clay with varying silt content; Red-brown to tan-brown clays with varying silt content; Brown to red silt with varying clay content and varying fine and medium grained sand; Red to dark red clay with varying silt content.

Relic lithic structures and textures were also noted. Bedrock was not encountered during the installation of any of the soil borings or monitoring wells (Figure 3). Geological Cross section A to A¹ (Figure 4) illustrates the site geology as interpreted from the boring logs (Appendix B).

In addition to the soil samples collected in relation to the UST closure activities, four additional soil borings were completed in an effort to delineate the extent of the petroleum affected soil. Two soil samples were collected from each boring and submitted for laboratory analyses according to Methods 3550 and 5030 Total Petroleum Hydrocarbons (TPH). Legacy's Standard Operating Procedures (Appendix C) were followed during all sampling events. In addition, soil samples collected were field screened with a Photoionization Detector (PID). Table 2 summarizes the laboratory analytical and field screening results from the respective soil sampling events. A copy of the laboratory reports are included in Appendix D.

Figure 5 illustrates the Soil Total Petroleum Hydrocarbons (TPH) Map. Soil Cross Sections B to B¹ and C to C¹ (Figure 6) illustrates the subsurface extent of the TPH constituents in the soil and the respective groundwater table as estimated from the December 17, 1994, and February 17, 1995, measurements. Several of the soil samples collected were noted to be in the zone of groundwater table fluctuation.

A Site Sensitivity Evaluation (SSE) was performed at the site (Appendix E). A site score of 80 and a Category E was assigned determining final clean up levels of 180 milligrams per kilogram (mg/kg) and 720 (mg/kg) according to Methods 5030 and 3550 TPH, respectively. The final cleanup level for the site should be determined by the Winston Salem Regional Office since contaminated soils are within 5' of the groundwater table.

Winston

4.0 - GROUND WATER INVESTIGATION

A total of five (MW-1 to MW-5) North Carolina Type II groundwater monitoring wells have been installed at the site. All monitoring wells were constructed of 2-inch Schedule 40 PVC with 0.010 inch slotted screen of varying intervals. Sand was placed around all slotted portions, and a bentonite seal was installed. These wells were then grouted to the surface and secured with water-tight locking well caps and bolted 8 inch man-hole covers. Based on the assumption that the contaminants of concern addressed were primarily hydrocarbon constituents with specific gravities of less than 1.0, four of the monitoring wells (MW-1 through MW-3 and MW-5) were installed so that the screened interval intersected the shallow groundwater table. Monitoring well MW-4 was installed with the screened interval below the existing water table in a topographically down-gradient direction in effort to evaluate the vertical extent of petroleum related compounds in the groundwater. Well Construction Records are included in Appendix B. Figure 4 illustrates the location of the monitoring wells in cross section, the corresponding geology, and relative groundwater elevations as measured on December 13, 1994, and February 17, 1995.

The groundwater table was noted to fluctuate approximately ten feet vertically between measuring events. Figure 7 and 7A illustrate the estimated shallow groundwater potentiometric surfaces as measured on December 13, 1994, and February 17, 1995 respectively. Groundwater flow is noted to be primarily to the east. The average potentiometric surface gradient in the direction of primary groundwater flow has been calculated at 0.039 and 0.133 for the December 13 and February 17 measurements, respectively. Table 3 summarizes monitoring well information and groundwater elevations.

After installation, the monitoring wells were developed and sampled in accordance with Legacy's Standard Operating Procedures. Groundwater sampling events were conducted on the following dates: March 18, 1994 (MW-1); February 1, 1995, (MW-2 through MW-5); February 9, 1995, (MW-1 through MW-5). All groundwater samples were submitted for laboratory analyses according to Methods 602 and 625 including Tentatively Identified Compounds (TICS) and Method 3030C for lead.

The laboratory analytical results reported concentrations of seven TICs in excess of current NCAC 2L Standards in the sample collected from MW-1. Total leads according to Method 3030C were also in excess of NCAC 2L Standards in samples collected from MW-3 and MW-4. Table 4 summarizes the groundwater laboratory analytical results and current 2L Standards of the compounds detected in the groundwater samples. A copy of the laboratory groundwater analytical reports and chain-of-custody records are included in Appendix A.

The extent of total volatile and semivolatile compounds, as represented by the groundwater samples collected at the site, are illustrated in the plan and cross section views in Figures 8 and 9, respectively.

5.0 -CONCLUSIONS AND RECOMMENDATIONS

Based on the information presented in this report, Legacy makes the following conclusions and recommendations:

- 1) The lateral and vertical extent of petroleum impacted soil and groundwater have been delineated.
- 2) The fluctuation of the groundwater table at the site, as indicated by the December and February measurements, along with the levels observed during Initial Site Characterization activities, may have a direct influence on the levels of TPH noted in both soil and groundwater samples collected during assessment activities. These fluctuations were noted to bring the groundwater table within approximately 3 feet of the bottom of the former UST excavation, with a total fluctuation of 10'. Soil samples collected from Borings 1, 3 and 4 at a depth of 8 feet below ground did not indicate the presence of TPH. However, samples collected at a depth of 16 feet below ground from Borings 2 and 3, within the zone of groundwater table fluctuation, indicated elevated levels of TPH. It is Legacy's opinion that the compounds indicated in the groundwater sample from MW-1 may be biased as a result of hydrocarbon smearing within the zone of fluctuation. Results from an immediately downgradient well, MW-5, fail to indicate groundwater contamination.
- 3) To date, no aquifer tests have been conducted at the site. Therefore, no aquifer characteristics were derived in this report. Legacy is of the opinion that aquifer restoration may not be required at the site if secondary sources (contaminated soils) are removed during a dry period when water levels are depressed. Therefore, Legacy does not recommend that a pump test be conducted to determine aquifer characteristics.
- 4) A Corrective Action Plan should be prepared to determine the most effective means of remediation.

6.0-LIMITATIONS

This report has been prepared for the exclusive use of Melvin Yarborough for the specific application to the referenced facility located in Guilford County. The assessment was conducted based on the scope of work and level of effort desired by the client and with resources adequate only for the scope of work to be performed. Our findings have been developed in accordance with generally accepted standards in the practice of geology and engineering in the State of North Carolina, available information and our professional judgement. No other warranty is expressed or implied.

The data presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. Additionally, the data obtained from the samples would be interpreted as meaningful with respect to parameters indicated in the laboratory reports. No additional information can be logically inferred from this data.

7.0 REFERENCES

G & H Oil Equipment, Inc., "Underground Storage Tank Closure Assessment," dated, March 24, 1994, for the Melvin Yarborough property, Greensboro, North Carolina.

Legacy Environmental Services, Inc., "Initial Site Characterization Report," dated, May 4, 1994, for the Melvin Yarborough property, Greensboro, North Carolina.

Tax Map 275, Guilford County, North Carolina.

USGS 7.5 Minute Series (Topographic) Greensboro, North Carolina Quadrangle, 1951 (photorevised 1968).

Geological Map of North Carolina, 1985. Department of Natural Resources and Community Development.

8.0 Professional Certification

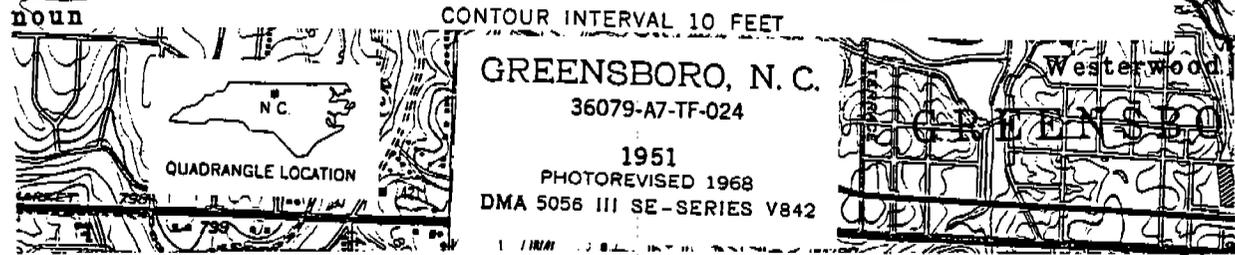
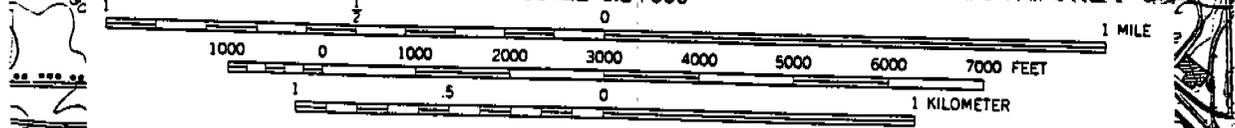
The UST closure report for this site has been prepared by Legacy Environmental Services, Inc. under the direct supervision of licensed engineers or geologists. Technical review of this document has been provided by Henry Nemargut Engineering Services. All engineering work performed on this project was conducted under my direct supervision:

Henry Nemargut, P.E.
Henry Nemargut Engineering Services
North Carolina License #17669

This report has been prepared for the exclusive use of Melvin Yarboro for the specific application to the referenced site located in Guilford County, North Carolina. The assessment was conducted based on the scope of work and level of effort desired by the client. Our findings have been developed in accordance with generally accepted standards in the practice of UST closures in the State of North Carolina, available information and our professional judgement. No other warranty is expressed or implied.

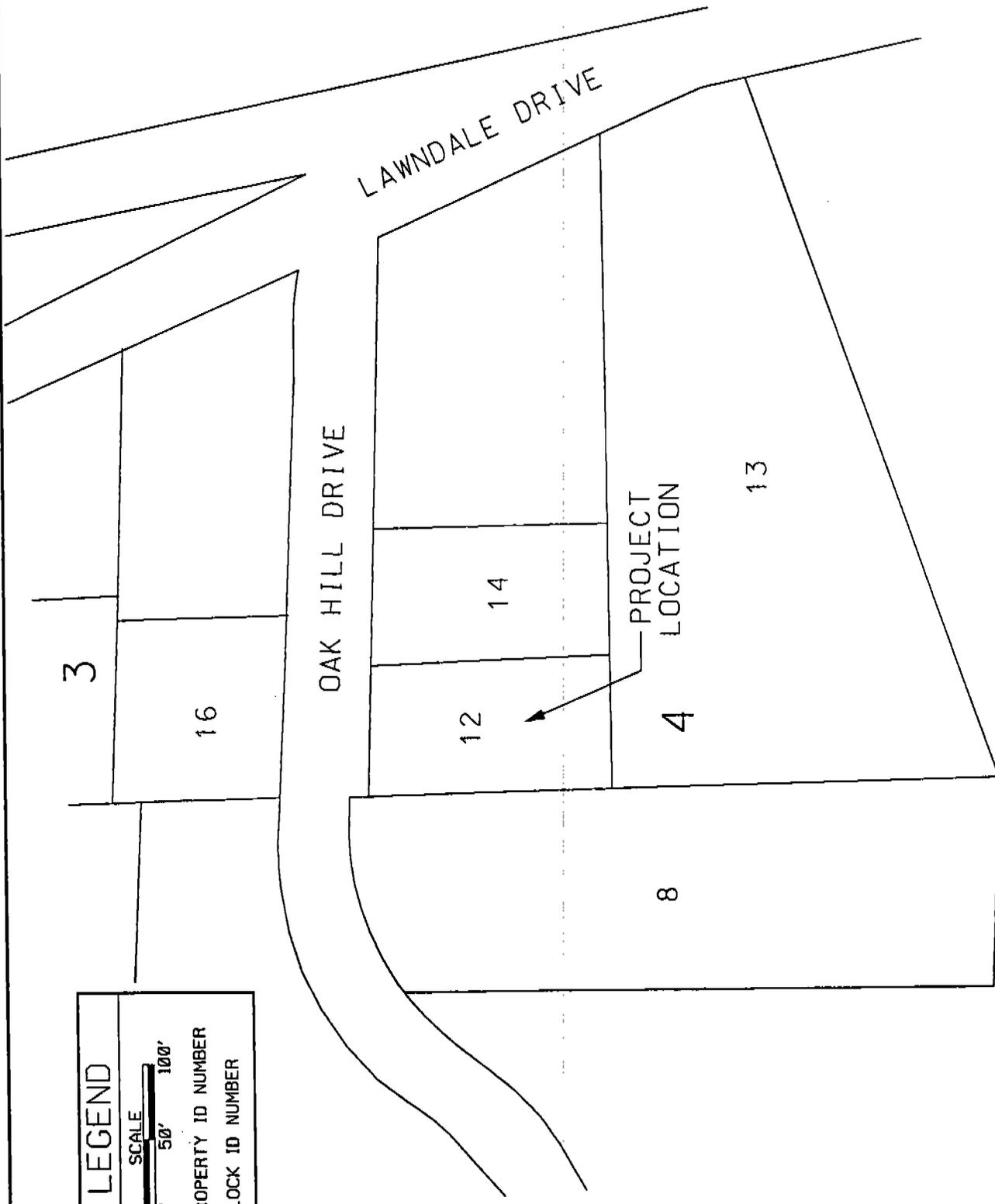
The data presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. Additionally, the data obtained from the samples would be interpreted as meaningful with respect to the parameters indicated in the laboratory reports. No additional information can be logically inferred from this data.

FIGURES



LEGACY ENVIRONMENTAL SERVICES, INC. GREENSBORO, NORTH CAROLINA
MELVIN YARBOROUGH GREENSBORO, NC
CLIENT:
PROJECT: CSA 2205 OAK HILL DRIVE GREENSBORO, N.C.
TITLE: PROJECT LOCATION
SCALE: 1"=2000'
DATE: 12/14/94
DWN.BY: KBM
DWG.#: L94-133

FIGURE 1



LEGEND

SCALE
0' 50' 100'

8 PROPERTY ID NUMBER
3 BLOCK ID NUMBER

FIGURE 2

SCALE: 1"=100'	TITLE: ADJACENT PROPERTIES MAP	PROJECT: CSA 2205 OAK HILL DRIVE GREENSBORO, NC	CLIENT: MELVIN YARBOROUGH GREENSBORO, NC	 LEGACY ENVIRONMENTAL SERVICES, INC. GREENSBORO, NORTH CAROLINA
DATE: 2/17/95				
DMN:BY: KBM				
DMG.* L94-133E				



PROJECT:

TITLE:

SCALE:

DATE:

DWN.BY:

1"=20'

12/14/94

KBM

L94-133

OAK HILL DRIVE

DRIVEWAY

CARPORT

PORCH

RESIDENCE

LEGEND

SCALE



⊕ MONITOR WELL LOCATION

▨ STONE WALL

▧ BRICK WALL

-x- FENCELINE

A A' LINE OF CROSS-SECTION

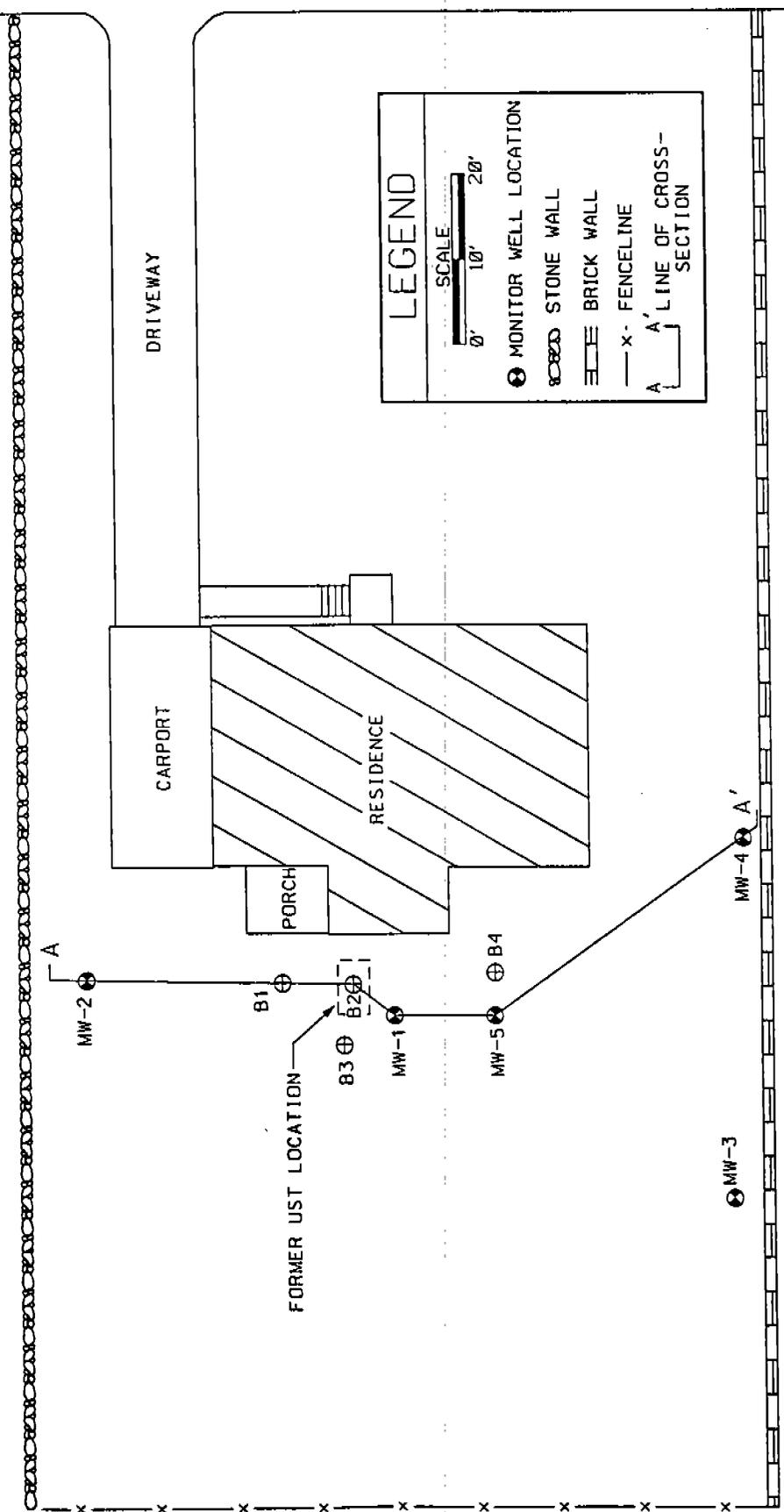
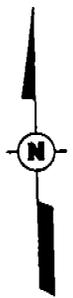
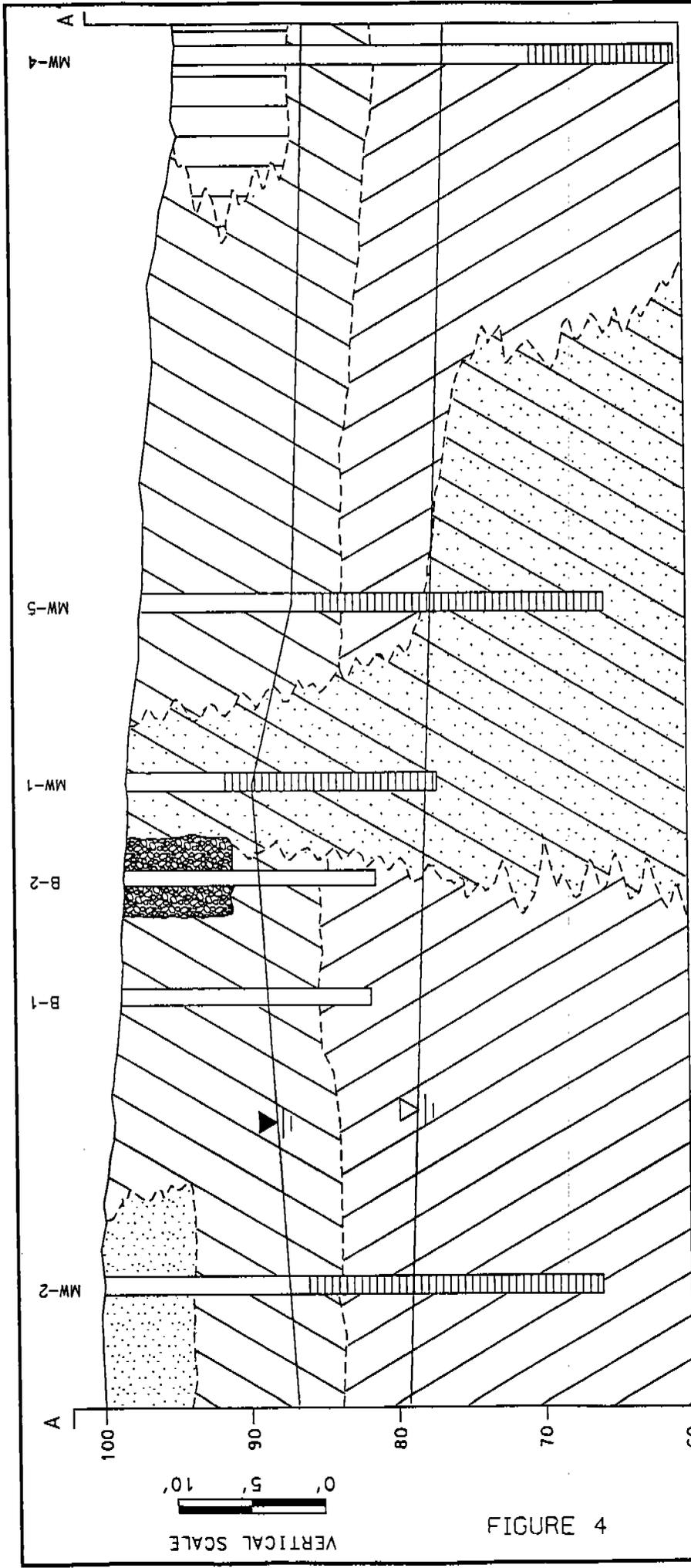


FIGURE 3



VERTICAL SCALE
 0' 5' 10'
 60 70 80 90 100
 A
 MW-4
 MW-5
 MW-1
 B-2
 B-1
 MW-2
 A
 (ft.)
 Note: All elevations based on arbitrary benchmark of 100.00 feet at MW-2.

HORIZONTAL SCALE
 0' 10' 20'

LEGEND

-  DARK RED TO LIGHT REDDISH-BROWN SILTS WITH VARYING CLAY CONTENT
-  RED-BROWN TO TAN-BROWN CLAYS WITH VARYING SILT CONTENT
-  RED SILT
-  RED TO DARK RED CLAY WITH VARYING SILT CONTENT
-  BROWN TO RED SILT WITH VARYING CLAY CONTENT AND VARYING AMOUNTS OF FINE AND MEDIUM GRAINED SAND
-  BACKFILL
-  ESTIMATED WATER TABLE (AS MEASURED 2-17-95)
-  MONITOR WELL SCREENED INTERVAL
-  ZONE OF GRADATIONAL CONTACT
-  ESTIMATED WATER TABLE (AS MEASURED 12-13-94)

FIGURE 4

SCALE: NTS	TITLE: GEOLOGIC CROSS SECTION A-A'	PROJECT: CSA	CLIENT: MELVIN YARBOROUGH GREENSBORO, NC	 LEGACY ENVIRONMENTAL SERVICES, INC. GREENSBORO, NORTH CAROLINA
DATE: 3/8/95	2205 OAK HILL DRIVE GREENSBORO, NC			
DWG BY: KBM				
DWG # L94-133F				

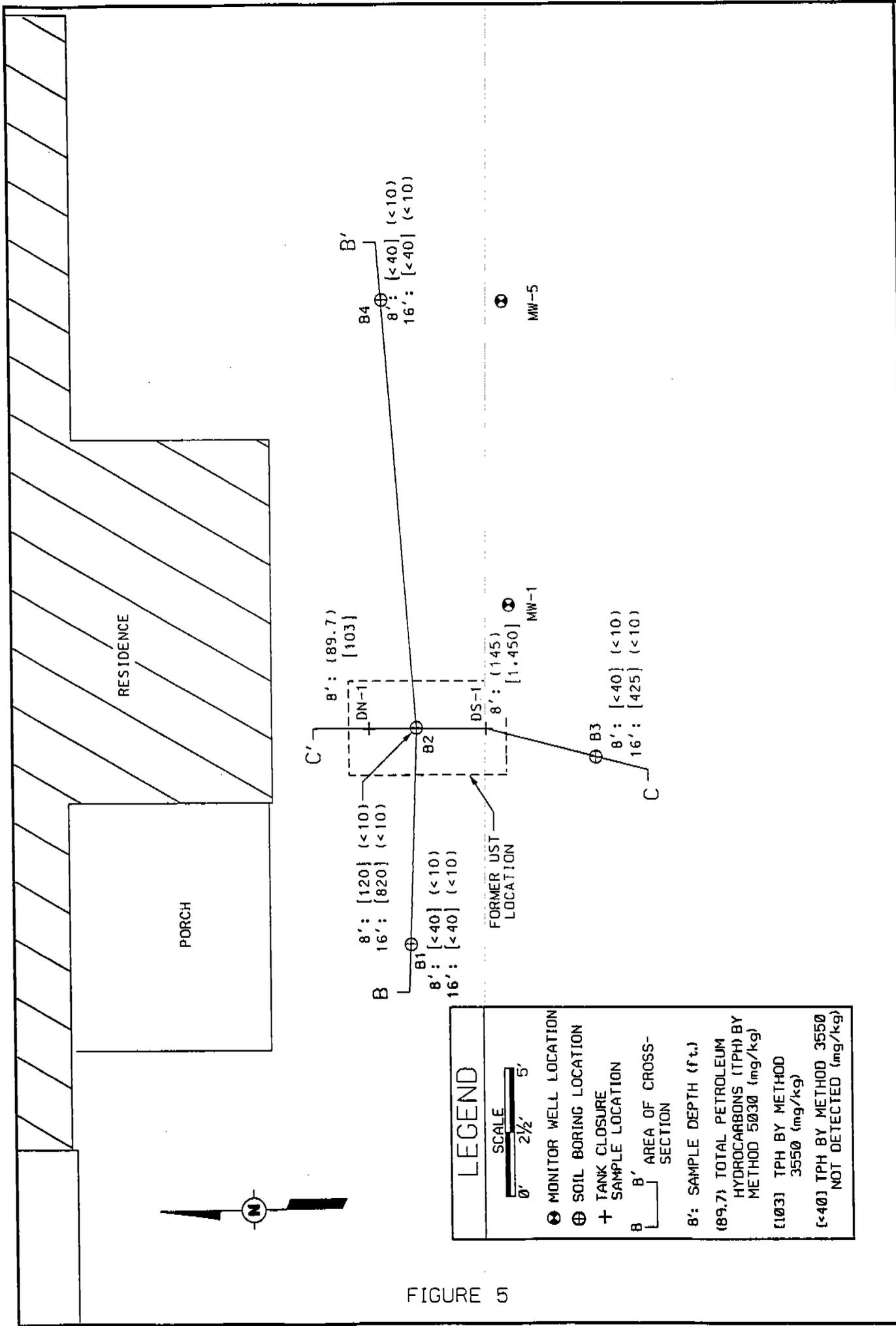


FIGURE 5

SCALE: 1"=5'	TITLE: SOIL TPH MAP	PROJECT: CSA	CLIENT: MELVIN YARBOROUGH GREENSBORO, NC	LEGACY ENVIRONMENTAL SERVICES, INC. GREENSBORO, NORTH CAROLINA
DATE: 3/9/95	2205 OAK HILL DRIVE GREENSBORO, NC			
DWN.BY: KBM				
DMG.# L94-133D				

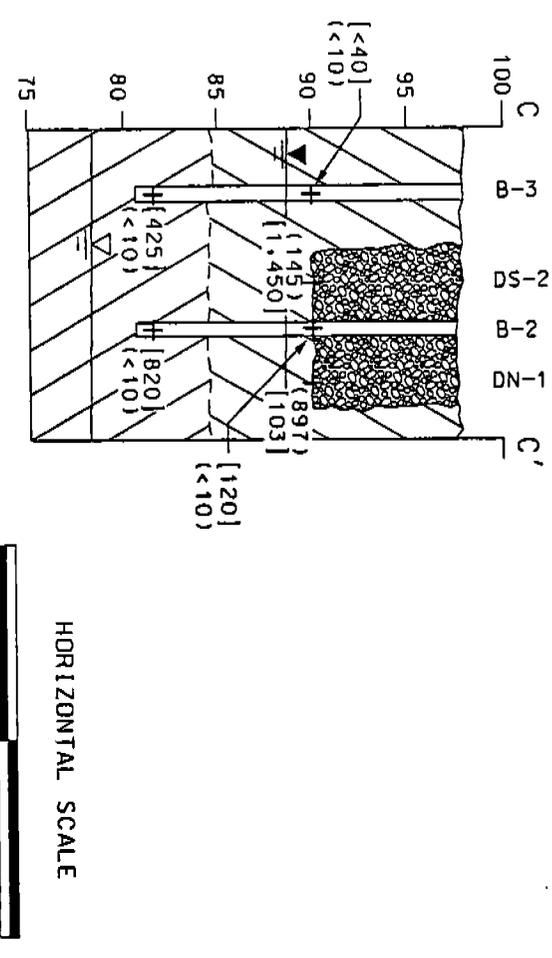
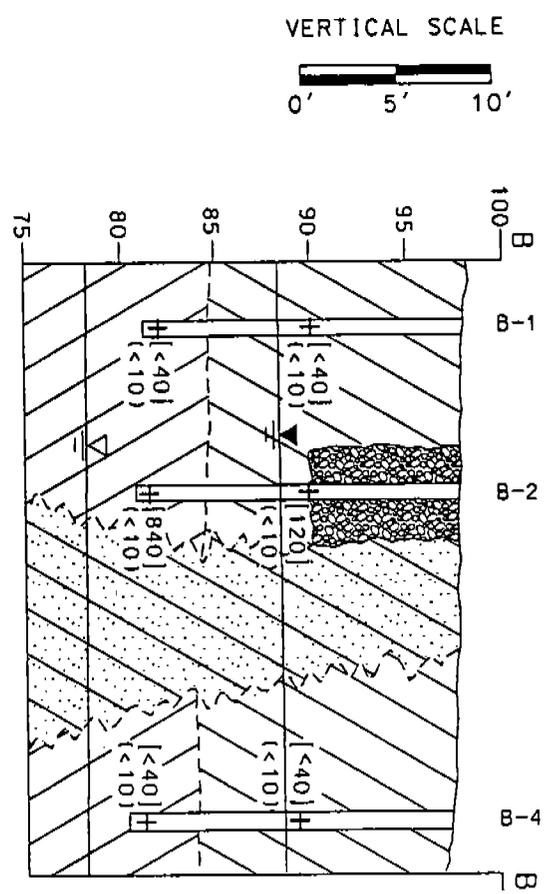


FIGURE 6

LEGEND

- DARK RED TO LIGHT REDDISH-BROWN SILTS WITH VARYING CLAY CONTENT
- RED-BROWN TO TAN-BROWN CLAYS WITH VARYING SILT CONTENT
- BROWN TO RED SILT WITH VARYING CLAY CONTENT AND VARYING AMOUNTS OF FINE AND MEDIUM GRAINED SAND
- BACKFILL
- ZONE OF GRADATIONAL CONTACT
- ESTIMATED WATER TABLE (AS MEASURED 12-13-94)
- ESTIMATED WATER TABLE (AS MEASURED 2-17-95)
- MONITOR WELL SCREENED INTERVAL
- SOIL SAMPLE LOCATION
- TOTAL PETROLEUM HYDROCARBONS (TPH) BY METHOD 5030 (mg/kg)
- TPH BY METHOD 3550 (mg/kg)

SCALE: 1"=10'	TITLE: SOIL CROSS SECTIONS B TO B' AND C TO C'	PROJECT: CSA 2205 OAK HILL DRIVE GREENSBORO, N.C.	CLIENT: MELVIN YARBOROUGH GREENSBORO, NC	<p>LEGACY ENVIRONMENTAL SERVICES, INC. GREENSBORO, NORTH CAROLINA</p>
DATE: 3/9/95				
DMN.BY: KBM				
DMG.: L94-133H				



CLIENT: MELVIN YARBOROUGH
GREENSBORO, NC

PROJECT: CSA
2205 OAK HILL DRIVE
GREENSBORO, N.C.

TITLE: POTENTIOMETRIC SURFACE MAP
(AS MEASURED 12-13-94)

SCALE: 1"=20'
DATE: 1/3/95
DWN.BY: KBM
DWG.# L94-133B

OAK HILL DRIVE

DRIVEWAY

CARPORT

RESIDENCE

PORCH

GROUNDWATER DATA		
MW #	T. O. C. ELEVATION	WATER LEVEL
1	98.64	DRY
2	100.00	21.14
3	95.91	20.11
4	94.99	19.09

LEGEND

SCALE
0' 10' 20'

MONITOR WELL LOCATION
GROUNDWATER FLOW DIRECTION
POTENTIOMETRIC CONTOUR LINE (f.t.)
GROUNDWATER ELEVATION (f.t.)

(78.86)
MW-2

MW-1

(75.90)
MW-4

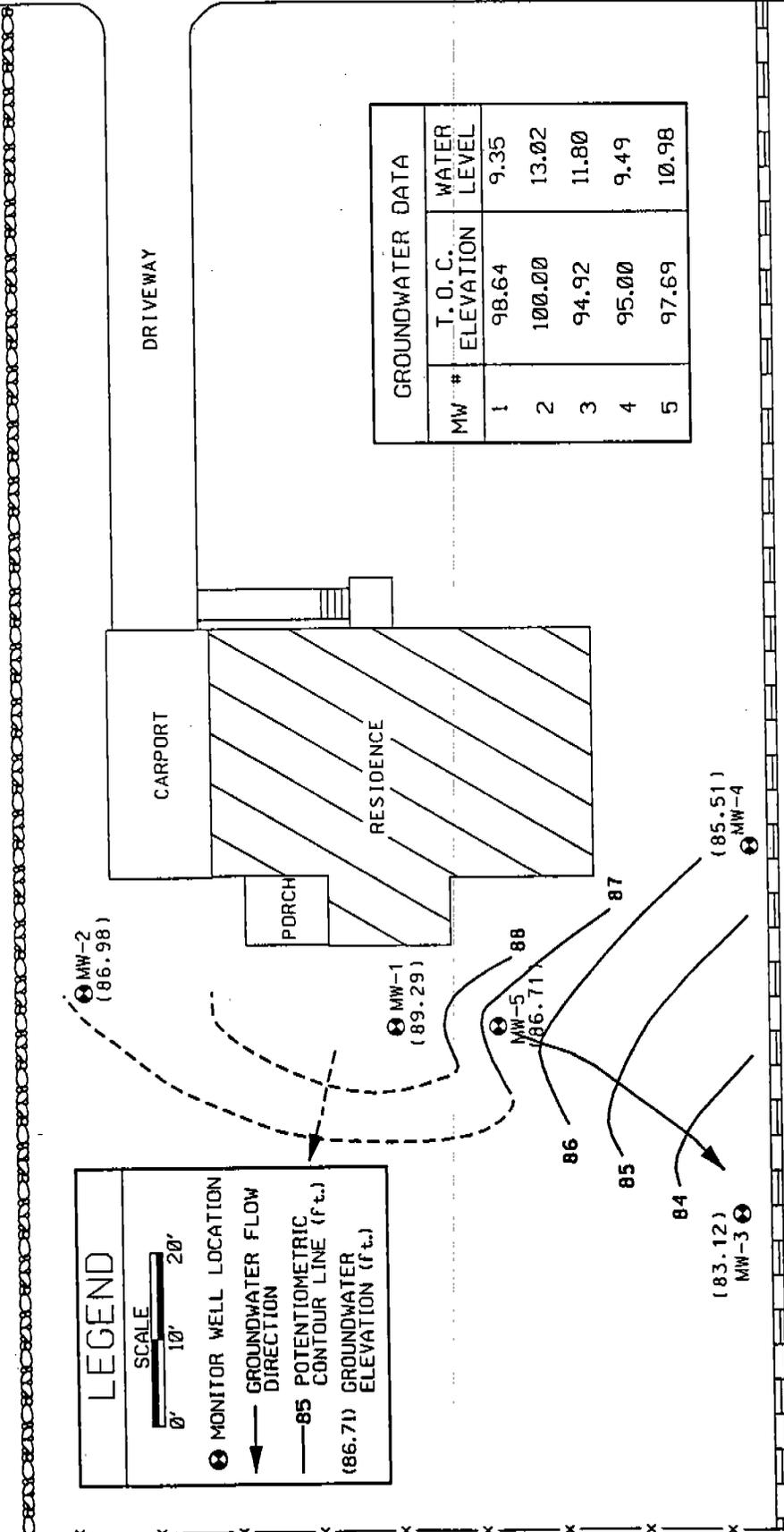
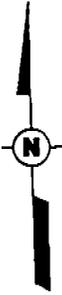
(75.80)
MW-3

78

77

76

FIGURE 7



GROUNDWATER DATA		
MW #	T. O. C. ELEVATION	WATER LEVEL
1	98.64	9.35
2	100.00	13.02
3	94.92	11.80
4	95.00	9.49
5	97.69	10.98

LEGEND

SCALE: 0' 10' 20'

⊕ MONITOR WELL LOCATION

→ GROUNDWATER FLOW DIRECTION

— 85 POTENTIOMETRIC CONTOUR LINE (f.t.)

(86.71) GROUNDWATER ELEVATION (f.t.)

FIGURE 7A



LEGACY ENVIRONMENTAL SERVICES, INC.
GREENSBORO, NORTH CAROLINA

CLIENT: MELVIN YARBOROUGH GREENSBORO, NC

PROJECT: CSA 2205 OAK HILL DRIVE GREENSBORO, N.C.

TITLE: POTENTIOMETRIC SURFACE MAP (AS MEASURED 2-17-95)

SCALE: 1"=20'
DATE: 2/17/95
DWN.BY: KBM
DWG.# L94-133C



OAK HILL DRIVE

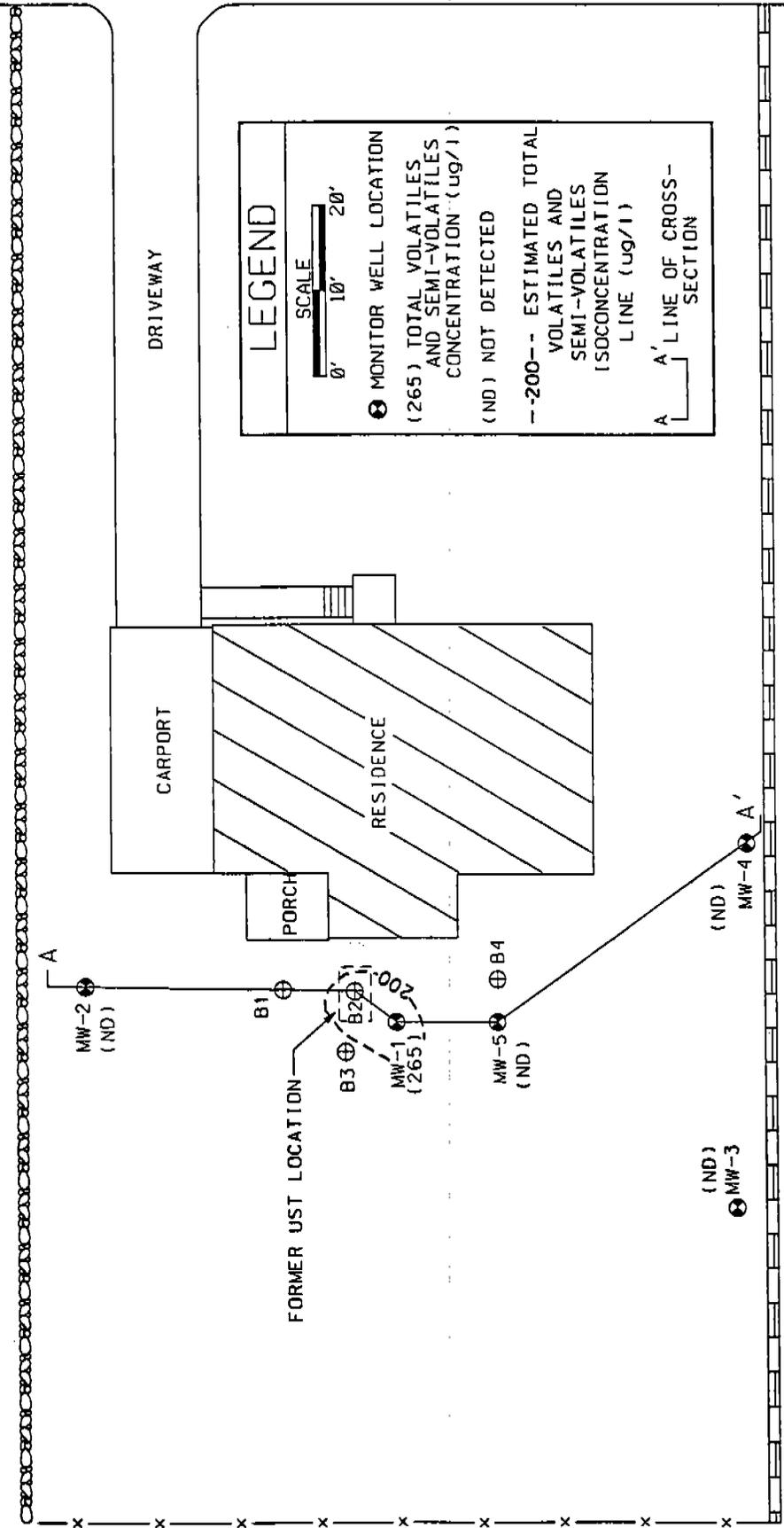
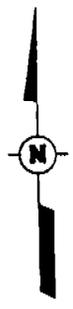


FIGURE 8

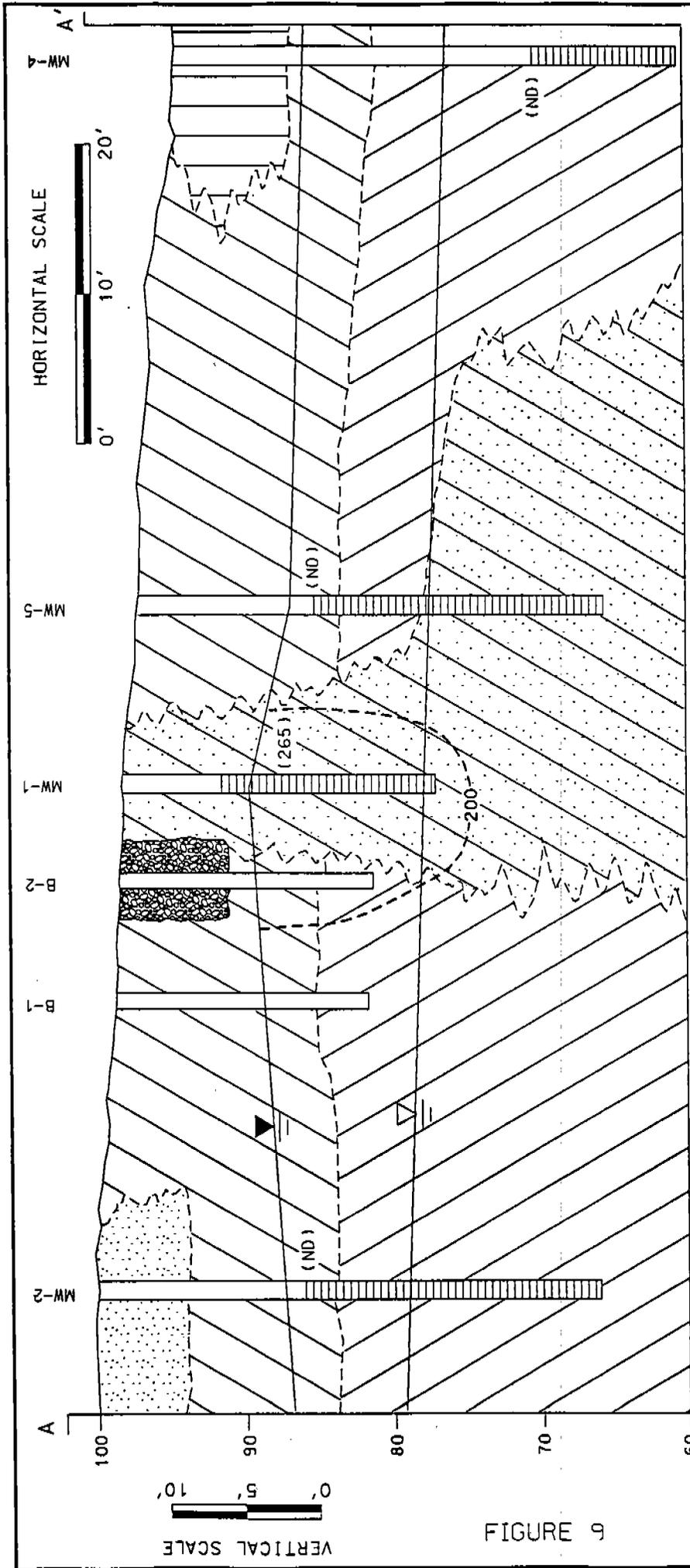


FIGURE 6

LEGEND

- DARK RED TO LIGHT REDDISH-BROWN SILTS WITH VARYING CLAY CONTENT
- RED-BROWN TO TAN-BROWN CLAYS WITH VARYING SILT CONTENT
- RED SILT
- RED TO DARK RED CLAY WITH VARYING SILT CONTENT
- BROWN TO RED SILT WITH VARYING CLAY CONTENT AND VARYING AMOUNTS OF FINE AND MEDIUM GRAINED SAND
- BACKFILL
- ESTIMATED WATER TABLE (AS MEASURED 2-17-95)
- MONITOR WELL SCREENED INTERVAL
- ZONE OF GRADATIONAL CONTACT
- ESTIMATED WATER TABLE (AS MEASURED 12-13-94)
- ESTIMATED TOTAL VOLATILES AND SEMI-VOLATILES ISOCONCENTRATION LINE (ug/l)
- TOTAL VOLATILES AND SEMI-VOLATILES CONCENTRATION (ug/l)
- (ND) NOT DETECTED

SCALE: NTS	PROJECT: CSA	CLIENT: MELVIN YARBOROUGH GREENSBORO, NC	<p>LEGACY ENVIRONMENTAL SERVICES, INC. GREENSBORO, NORTH CAROLINA</p>
DATE: 3/10/95	2205 OAK HILL DRIVE GREENSBORO, NC		
DWN.BY: KBM			
DWG. # L-94-133F			

TABLES

TABLE 1: ADJACENT PROPERTY OWNERS

**COMPREHENSIVE SITE ASSESSMENT
2205 OAK HILL DRIVE
GREENSBORO, NORTH CAROLINA**

Note: All addresses obtained from Guilford County Tax Records

<u>MAP</u>	<u>BLOCK</u>	<u>LOT</u>	<u>OWNER INFO</u>	<u>SITE ADDRESS</u>
275	3	16	Eileen Hall Curry	2206 Oak Hill Drive Greensboro, NC 27408
275	4	8	J. B. Wray	2207 Oak Hill Drive Greensboro, NC 27408
275	4	13	Little Mouse Playhouse Daycare	2903 Lawndale Drive Greensboro, NC 27408
275	4	14	Robert Eastwood	2203 Oak Hill Drive Greensboro, NC 27408
PROJECT LOCATION				
275	4	12	Melvin Yarborough	2205 Oak Hill Drive Greensboro, NC 27408

OAKHILL

TABLE 2

FIELD AND LABORATORY ANALYTICAL RESULTS
SOIL SAMPLES

2205 OAK HILL DRIVE
GREENSBORO, NORTH CAROLINA

SAMPLE ID	LOCATION	DATE	DEPTH (FT)	TPH (3550)*	TPH (5030)*	OVA **
DN-1	North End UST	2/24/93	8'	103	89.7	N/A
DS-2	South End UST	2/24/93	8'	1,450	145	N/A
B1-8	Boring 1	2/9/95	8'	<40	<10	<10
B1-16	Boring 1	2/9/95	16'	<40	<10	<10
B2-8	Boring 2	2/9/95	8'	120	<10	<10
B2-16	Boring 2	2/9/95	16'	820	<10	56
B3-8	Boring 3	2/9/95	8'	<40	<10	<10
B3-16	Boring 3	2/9/95	16'	<10	<10	<10

* Results in parts per million (ppm)
** Field Screening Method (Photoionization Detector) in ppm
N/A = Not Analyzed
<10, <40 AND BDL = Below Detection Limits

TABLE 2 CONT.

FIELD AND LABORATORY ANALYTICAL RESULTS
SOIL SAMPLES

2205 OAK HILL DRIVE
GREENSBORO, NORTH CAROLINA

SAMPLE ID	LOCATION	DATE	DEPTH (FT)	TPH (3550)*	TPH (5030)*	OVA **
B4-8	Boring 4	2/9/95	8'	<40	<10	<10
B4-16	Boring 4	2/9/95	16'	<40	<10	<10

* Results in parts per million (ppm)
 ** Field Screening Method (Photoionization Detector) in ppm
 N/A = Not Analyzed
 <10, <40 AND BDL = Below Detection Limits

TABLE 3
Monitoring Well Information and Groundwater Elevations/1

2205 Oak Hill Drive
 Guilford County, Greensboro, North Carolina

Well Number	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water	Groundwater Elevation
MW-1	98.64	84.64	64.64	9.35	89.29
MW-2	100.00	86.00	66.00	13.02	86.98
MW-3	94.92	80.92	60.92	11.80	83.12
MW-4	95.00	71.00	61.00	9.49	85.51
MW-5	97.69	80.69	60.69	10.98	86.71

1/ All Measurements taken in feet on 2/17/95 and based on an arbitrary benchmark of 100.00 feet at MW-2.

TABLE 4

Summary of Groundwater Laboratory Analytical Results/1

2205 Oak Hill Drive
 Guilford County, Greensboro, North Carolina

CONSTITUENT	MW-1	MW-2	MW-3	MW-4	MW-5	2L Standard/2
Date	3/18/94	2/1/95	2/1/95	2/1/95	2/1/95	
Xylenes (total)	17	ND/3	ND	ND	ND	530
Naphthalene	15	ND	ND	ND	ND	21
1,2,4-Trimethylbenzene	24	ND	ND	ND	ND	DL/4
(E)-1-Phenyl-1-butene	11	ND	ND	ND	ND	DL
1-Methylnaphthalene	17	ND	ND	ND	ND	DL
1,5-Dimethylnaphthalene	27	ND	ND	ND	ND	DL
2,3-Dimethylnaphthalene	34	ND	ND	ND	ND	DL
1,7-Dimethylnaphthalene	20	ND	ND	ND	ND	DL
2-Methylnaphthalene	60	ND	ND	ND	ND	DL
Lead (sampled 2-9-95)	ND	ND	45	20	ND	15

- /1. Results reported in micrograms per liter (ug/l); only detected compounds are listed.
- /2. North Carolina NCAC 2L Standard for groundwater.
- /3. Not detected above laboratory quantitation limits.
- /4. 2L Standard is any detectable level.

X95-111A

APPENDIX A

GROUNDWATER ANALYTICAL RESULTS



WATER TECHNOLOGY AND CONTROLS, INC.

Water Treatment Chemistries & Environmental Laboratory

April 7, 1994

Mr. Ed Setzer
Legacy Environmental Services, Inc.
114 S. Westgate Dr.
Greensboro, NC 27419

Dear Mr. Setzer:

Enclosed are results for the following sample:

<u>W.O.#</u>	<u>SAMPLE</u>	<u>DATE</u>
03219401A	MW-1 GRAB	3/18/94

If you have any questions concerning these data please contact me.

Sincerely,

Mike Vaughan
Laboratory Supervisor



Water Technology and Controls, Inc.
Water Treatment Chemistries and Environmental Laboratory
Reidsville, North Carolina 27320
(910) 342-4748

April 7, 1994
Project: 2205 Oak Hill
Project Number: P-342
Semivolatile Organics by EPA 625

<u>PARAMETER</u>	<u>MW-1</u>
N-nitrosodimethylamine	<0.010 mg/L
Phenol	<0.010 mg/L
bis(2-Chloroethyl)ether	<0.010 mg/L
2-Chlorophenol	<0.010 mg/L
1,3-Dichlorobenzene	<0.010 mg/L
1,4-Dichlorobenzene	<0.010 mg/L
1,2-Dichlorobenzene	<0.010 mg/L
bis(2-chloroisopropyl)ether	<0.010 mg/L
Hexachloroethane	<0.010 mg/L
2-Methylphenol	<0.010 mg/L
4-Methylphenol	<0.010 mg/L
n-Nitroso-di-n-propylamine	<0.010 mg/L
Nitrobenzene	<0.010 mg/L
Isophorone	<0.010 mg/L
2-Nitrophenol	<0.010 mg/L
2,4-Dimethylphenol	<0.010 mg/L
bis(2-Chloroethoxy)methane	<0.010 mg/L
2,4-Dichlorophenol	<0.010 mg/L
1,2,4-Trichlorobenzene	<0.010 mg/L
Naphthalene	0.015 mg/L
Hexachlorobutadiene	<0.010 mg/L
4-Chloro-3-methylphenol	<0.010 mg/L
Hexachlorocyclopentadiene	<0.025 mg/L
2,4,6-Trichlorophenol	<0.010 mg/L
2-Chloronaphthalene	<0.010 mg/L
Dimethylphthalate	<0.010 mg/L
Acenaphthylene	<0.010 mg/L
1,2-Diphenylhydrazine	<0.010 mg/L
2,6-Dinitrotoluene	<0.010 mg/L
Acenaphthene	<0.010 mg/L
2,4-Dinitrophenol	<0.025 mg/L
4-Nitrophenol	<0.010 mg/L
2,4-Dinitrotoluene	<0.010 mg/L
Fluorene	<0.010 mg/L
Diethylphthalate	<0.010 mg/L
4-Chlorophenyl-phenylether	<0.010 mg/L
4,6-Dinitro-2-methylphenol	<0.010 mg/L
n-Nitrosodiphenylamine	<0.010 mg/L
4-Bromophenyl-phenylether	<0.010 mg/L
Hexachlorobenzene	<0.010 mg/L
Pentachlorophenol	<0.010 mg/L
Phenanthrene	<0.010 mg/L
Anthracene	<0.010 mg/L
Di-n-butylphthalate	<0.010 mg/L
Fluoranthene	<0.010 mg/L
Pyrene	<0.010 mg/L
Benzidine	<0.010 mg/L
Butylbenzylphthalate	<0.010 mg/L
Benzo[a]anthracene	<0.010 mg/L
3,3'-Dichlorobenzidine	<0.010 mg/L
Chrysene	<0.010 mg/L
bis(2-Ethylhexyl)phthalate	<0.010 mg/L
Di-n-octylphthalate	<0.010 mg/L
Benzo[b]fluoranthene	<0.010 mg/L
Benzo[k]fluoranthene	<0.010 mg/L
Benzo[a]pyrene	<0.010 mg/L
Dibenz[a,h]anthracene	<0.010 mg/L
Benzo[g,h,i]perylene	<0.010 mg/L
Indeno[1,2,3-cd]pyrene	<0.010 mg/L

Tentative Identification of 10 Most Significant
Peaks in Semi-Volatile fraction of MW-1:
Compound (Library Search) Estimated Conc.

1,2,4-Trimethylbenzene	0.024 mg/L
(E)-1-Phenyl-1-butene	0.011 mg/L
1-Methylnaphthalene	0.017 mg/L
1,5-Dimethylnaphthalene	0.027 mg/L
2,3-dimethylnaphthalene	0.034 mg/L
1,7-Dimethylnaphthalene	0.02 mg/L
2-Methylnaphthalene	0.06 mg/L

EPA 602 by GC/MS

<u>PARAMETER</u>	<u>MW-1</u>
Benzene	< 5 ug/L
Toluene	< 5 ug/L
Chlorobenzene	< 5 ug/L
Ethylbenzene	< 5 ug/L
m,p-Xylene	0.007 ug/L
o-Xylene	0.010 ug/L
1,3-Dichlorobenzene	< 5 ug/L
1,4-Dichlorobenzene	< 5 ug/L
1,2-Dichlorobenzene	< 5 ug/L

Metals

	<u>MW-1</u>
Lead by EPA 3030c	< 0.050 mg/L

H Y D R O L O G I C , I N C .

February 13, 1995

REPORTING:

Legacy Environmental
114-C South Westgate Dr.
Greensboro, NC 27407

Attention: Tom Rigley

INVOICING:

Legacy Environmental
114-C South Westgate Dr.
Greensboro, NC 27407

PROJECT NUMBER: FL952623

DATE COMPLETED: February 13, 1995

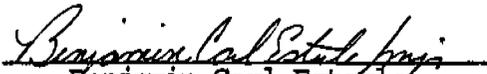
DATE RECEIVED: February 2, 1995

PROJECT DESCRIPTION:

Yarboro Property/P-342A--4 water samples analyzed for 625/TICS/602.

Enclosed is the laboratory report for the project described above. If you have any questions or if we can be of further assistance, please feel free to contact Jamie Fore. We appreciate your business and look forward to serving you again soon.

Respectfully,


Benjamin Carl Esterle
Laboratory Director

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
 HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952623
 HYDROLOGIC LAB I.D.#: 399
 SAMPLE IDENTIFICATION: MW-2
 DATE SAMPLED: 2/1/95
 DATE EXTRACTED: 2/6/95
 DATE/TIME ANALYZED: 2/11/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Phenol	108-95-2	5.0	BDL
bis(2-Chloroethyl) ether	111-44-4	5.0	BDL
2-Chlorophenol	95-57-8	5.0	BDL
1,3-Dichlorobenzene	541-73-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
bis(2-Chloroisopropyl) ether	39638-32-9	5.0	BDL
N-Nitroso-di-n-propylamine	621-64-7	5.0	BDL
Hexachloroethane	67-72-1	5.0	BDL
Nitrobenzene	98-95-3	5.0	BDL
Isophorone	78-59-1	5.0	BDL
2-Nitrophenol	88-75-5	5.0	BDL
2,4-Dimethylphenol	105-67-9	5.0	BDL
bis(2-Chloroethoxy)methane	111-91-1	5.0	BDL
2,4-Dichlorophenol	120-83-2	5.0	BDL
1,2,4-Trichlorobenzene	120-82-1	5.0	BDL
Naphthalene	91-20-3	5.0	BDL
Hexachlorobutadiene	87-68-3	5.0	BDL
4-Chloro-3-methylphenol	59-50-7	5.0	BDL
2,4,6-Trichlorophenol	88-06-2	5.0	BDL
2-Chloronaphthalene	91-58-7	5.0	BDL
Dimethylphthalate	131-11-3	5.0	BDL
Acenaphthylene	208-96-8	5.0	BDL
Acenaphthene	83-32-9	5.0	BDL
2,4-Dinitrophenol	51-28-5	25.0	BDL

H Y D R O L O G I C , I N C .

Page 2 continued

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
 HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952623
 SAMPLE IDENTIFICATION: MW-2
 DATE SAMPLED: 2/1/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
4-Nitrophenol	100-02-7	25.0	BDL
2,4-Dinitrotoluene	121-14-2	5.0	BDL
2,6-Dinitrotoluene	606-20-2	5.0	BDL
Diethylphthalate	84-66-2	5.0	BDL
4-Chlorophenyl-phenylether	7005-72-3	5.0	BDL
Fluorene	86-73-7	5.0	BDL
4,6-Dinitro-2-methylphenol	534-52-1	25.0	BDL
4-Bromophenyl-phenylether	101-55-3	5.0	BDL
Hexachlorobenzene	118-74-1	5.0	BDL
Pentachlorophenol	87-86-5	25.0	BDL
Phenanthrene	85-01-8	5.0	BDL
Anthracene	120-12-7	5.0	BDL
Di-n-butylphthalate	84-74-2	5.0	BDL
Fluoranthene	206-44-0	5.0	BDL
Pyrene	129-00-0	5.0	BDL
Butylbenzylphthalate	85-68-7	5.0	BDL
3,3'-Dichlorobenzidine	91-94-1	10.0	BDL
Benzo(a)anthracene	56-55-3	5.0	BDL
bis(2-Ethylhexyl)phthalate	117-81-7	5.0	BDL
Chrysene	218-01-9	5.0	BDL
Di-n-octylphthalate	117-84-0	5.0	BDL
Benzo(b)fluoranthene	205-99-2	5.0	BDL
Benzo(k)fluoranthene	207-08-9	5.0	BDL
Benzo(a)pyrene	50-32-8	5.0	BDL

H Y D R O L O G I C , I N C .

Page 3 continued

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952623
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 2/1/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/1)	<u>RESULT</u> (ug/1)
Indeno(1,2,3-cd)pyrene	193-39-5	5.0	BDL
Dibenz(a,h)anthracene	53-70-3	5.0	BDL
Benzo(g,h,i)perylene	191-24-2	5.0	BDL
Hexachlorocyclopentadiene	77-47-4	10.0	BDL
N-Nitrosodiphenylamine	86-30-6	10.0	BDL
Benzidine	92-87-5	80.0	BDL
N-Nitrosodimethylamine	62-75-9	10.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I - N - C .

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952623
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 2/1/95
DATE EXTRACTED: 2/6/95
DATE/TIME ANALYZED: 2/11/95

TENTATIVELY IDENTIFIED COMPOUNDS
(water samples)

<u>COMPOUND NAME</u>	<u>SDL</u> (ug/l)	<u>ESTIMATED</u> <u>CONCENTRATION</u> (ug/l)
NO COMPOUNDS IDENTIFIED	10.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952623
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 2/1/95
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 2/6/95

METHOD EPA 602

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery: BFB			114%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A

HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952624
 HYDROLOGIC LAB I.D.#: 399
 SAMPLE IDENTIFICATION: MW-3
 DATE SAMPLED: 2/1/95
 DATE EXTRACTED: 2/6/95
 DATE/TIME ANALYZED: 2/11/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Phenol	108-95-2	5.0	BDL
bis(2-Chloroethyl)ether	111-44-4	5.0	BDL
2-Chlorophenol	95-57-8	5.0	BDL
1,3-Dichlorobenzene	541-73-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
bis(2-Chloroisopropyl)ether	39638-32-9	5.0	BDL
N-Nitroso-di-n-propylamine	621-64-7	5.0	BDL
Hexachloroethane	67-72-1	5.0	BDL
Nitrobenzene	98-95-3	5.0	BDL
Isophorone	78-59-1	5.0	BDL
2-Nitrophenol	88-75-5	5.0	BDL
2,4-Dimethylphenol	105-67-9	5.0	BDL
bis(2-Chloroethoxy)methane	111-91-1	5.0	BDL
2,4-Dichlorophenol	120-83-2	5.0	BDL
1,2,4-Trichlorobenzene	120-82-1	5.0	BDL
Naphthalene	91-20-3	5.0	BDL
Hexachlorobutadiene	87-68-3	5.0	BDL
4-Chloro-3-methylphenol	59-50-7	5.0	BDL
2,4,6-Trichlorophenol	88-06-2	5.0	BDL
2-Chloronaphthalene	91-58-7	5.0	BDL
Dimethylphthalate	131-11-3	5.0	BDL
Acenaphthylene	208-96-8	5.0	BDL
Acenaphthene	83-32-9	5.0	BDL
2,4-Dinitrophenol	51-28-5	25.0	BDL

Page 2 continued

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
 HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952624
 SAMPLE IDENTIFICATION: MW-3
 DATE SAMPLED: 2/1/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
4-Nitrophenol	100-02-7	25.0	BDL
2,4-Dinitrotoluene	121-14-2	5.0	BDL
2,6-Dinitrotoluene	606-20-2	5.0	BDL
Diethylphthalate	84-66-2	5.0	BDL
4-Chlorophenyl-phenylether	7005-72-3	5.0	BDL
Fluorene	86-73-7	5.0	BDL
4,6-Dinitro-2-methylphenol	534-52-1	25.0	BDL
4-Bromophenyl-phenylether	101-55-3	5.0	BDL
Hexachlorobenzene	118-74-1	5.0	BDL
Pentachlorophenol	87-86-5	25.0	BDL
Phenanthrene	85-01-8	5.0	BDL
Anthracene	120-12-7	5.0	BDL
Di-n-butylphthalate	84-74-2	5.0	BDL
Fluoranthene	206-44-0	5.0	BDL
Pyrene	129-00-0	5.0	BDL
Butylbenzylphthalate	85-68-7	5.0	BDL
3,3'-Dichlorobenzidine	91-94-1	10.0	BDL
Benzo(a)anthracene	56-55-3	5.0	BDL
bis(2-Ethylhexyl)phthalate	117-81-7	5.0	BDL
Chrysene	218-01-9	5.0	BDL
Di-n-octylphthalate	117-84-0	5.0	BDL
Benzo(b)fluoranthene	205-99-2	5.0	BDL
Benzo(k)fluoranthene	207-08-9	5.0	BDL
Benzo(a)pyrene	50-32-8	5.0	BDL

H Y D R O L O G I C , I N C .

Page 3 continued

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A

HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952624
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 2/1/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Indeno(1,2,3-cd)pyrene	193-39-5	5.0	BDL
Dibenz(a,h)anthracene	53-70-3	5.0	BDL
Benzo(g,h,i)perylene	191-24-2	5.0	BDL
Hexachlorocyclopentadiene	77-47-4	10.0	BDL
N-Nitrosodiphenylamine	86-30-6	10.0	BDL
Benzidine	92-87-5	80.0	BDL
N-Nitrosodimethylamine	62-75-9	10.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A

HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952624
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 2/1/95
DATE EXTRACTED: 2/6/95
DATE/TIME ANALYZED: 2/11/95

TENTATIVELY IDENTIFIED COMPOUNDS
(water samples)

<u>COMPOUND NAME</u>	<u>SDL</u> (ug/l)	<u>ESTIMATED</u> <u>CONCENTRATION</u> (ug/l)
NO COMPOUNDS IDENTIFIED	10.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952624
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 2/1/95
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 2/7/95

METHOD EPA 602

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery: BFB			78%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
 HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952625
 HYDROLOGIC LAB I.D.#: 399
 SAMPLE IDENTIFICATION: MW-4
 DATE SAMPLED: 2/1/95
 DATE EXTRACTED: 2/6/95
 DATE/TIME ANALYZED: 2/11/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Phenol	108-95-2	5.0	BDL
bis(2-Chloroethyl) ether	111-44-4	5.0	BDL
2-Chlorophenol	95-57-8	5.0	BDL
1,3-Dichlorobenzene	541-73-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
bis(2-Chloroisopropyl) ether	39638-32-9	5.0	BDL
N-Nitroso-di-n-propylamine	621-64-7	5.0	BDL
Hexachloroethane	67-72-1	5.0	BDL
Nitrobenzene	98-95-3	5.0	BDL
Isophorone	78-59-1	5.0	BDL
2-Nitrophenol	88-75-5	5.0	BDL
2,4-Dimethylphenol	105-67-9	5.0	BDL
bis(2-Chloroethoxy)methane	111-91-1	5.0	BDL
2,4-Dichlorophenol	120-83-2	5.0	BDL
1,2,4-Trichlorobenzene	120-82-1	5.0	BDL
Naphthalene	91-20-3	5.0	BDL
Hexachlorobutadiene	87-68-3	5.0	BDL
4-Chloro-3-methylphenol	59-50-7	5.0	BDL
2,4,6-Trichlorophenol	88-06-2	5.0	BDL
2-Chloronaphthalene	91-58-7	5.0	BDL
Dimethylphthalate	131-11-3	5.0	BDL
Acenaphthylene	208-96-8	5.0	BDL
Acenaphthene	83-32-9	5.0	BDL
2,4-Dinitrophenol	51-28-5	25.0	BDL

H Y D R O L O G I C , I N C .

Page 2 continued

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
 HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952625
 SAMPLE IDENTIFICATION: MW-4
 DATE SAMPLED: 2/1/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
4-Nitrophenol	100-02-7	25.0	BDL
2,4-Dinitrotoluene	121-14-2	5.0	BDL
2,6-Dinitrotoluene	606-20-2	5.0	BDL
Diethylphthalate	84-66-2	5.0	BDL
4-Chlorophenyl-phenylether	7005-72-3	5.0	BDL
Fluorene	86-73-7	5.0	BDL
4,6-Dinitro-2-methylphenol	534-52-1	25.0	BDL
4-Bromophenyl-phenylether	101-55-3	5.0	BDL
Hexachlorobenzene	118-74-1	5.0	BDL
Pentachlorophenol	87-86-5	25.0	BDL
Phenanthrene	85-01-8	5.0	BDL
Anthracene	120-12-7	5.0	BDL
Di-n-butylphthalate	84-74-2	5.0	BDL
Fluoranthene	206-44-0	5.0	BDL
Pyrene	129-00-0	5.0	BDL
Butylbenzylphthalate	85-68-7	5.0	BDL
3,3'-Dichlorobenzidine	91-94-1	10.0	BDL
Benzo(a)anthracene	56-55-3	5.0	BDL
bis(2-Ethylhexyl)phthalate	117-81-7	5.0	BDL
Chrysene	218-01-9	5.0	BDL
Di-n-octylphthalate	117-84-0	5.0	BDL
Benzo(b)fluoranthene	205-99-2	5.0	BDL
Benzo(k)fluoranthene	207-08-9	5.0	BDL
Benzo(a)pyrene	50-32-8	5.0	BDL

Page 3 continued

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
 HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952625
 SAMPLE IDENTIFICATION: MW-4
 DATE SAMPLED: 2/1/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Indeno(1,2,3-cd)pyrene	193-39-5	5.0	BDL
Dibenz(a,h)anthracene	53-70-3	5.0	BDL
Benzo(g,h,i)perylene	191-24-2	5.0	BDL
Hexachlorocyclopentadiene	77-47-4	10.0	BDL
N-Nitrosodiphenylamine	86-30-6	10.0	BDL
Benzidine	92-87-5	80.0	BDL
N-Nitrosodimethylamine	62-75-9	10.0	BDL

BDL = Below Sample Detection Limit
 SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A

HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952625
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-4
DATE SAMPLED: 2/1/95
DATE EXTRACTED: 2/6/95
DATE/TIME ANALYZED: 2/11/95

TENTATIVELY IDENTIFIED COMPOUNDS
(water samples)

<u>COMPOUND NAME</u>	<u>SDL</u> (ug/l)	<u>ESTIMATED</u> <u>CONCENTRATION</u> (ug/l)
NO COMPOUNDS IDENTIFIED	10.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A

HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952625
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-4
DATE SAMPLED: 2/1/95
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 2/6/95

METHOD EPA 602

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery: BFB			93%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
 HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952626
 HYDROLOGIC LAB I.D.#: 399
 SAMPLE IDENTIFICATION: MW-5
 DATE SAMPLED: 2/1/95
 DATE EXTRACTED: 2/6/95
 DATE/TIME ANALYZED: 2/11/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Phenol	108-95-2	5.0	BDL
bis(2-Chloroethyl) ether	111-44-4	5.0	BDL
2-Chlorophenol	95-57-8	5.0	BDL
1,3-Dichlorobenzene	541-73-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
bis(2-Chloroisopropyl) ether	39638-32-9	5.0	BDL
N-Nitroso-di-n-propylamine	621-64-7	5.0	BDL
Hexachloroethane	67-72-1	5.0	BDL
Nitrobenzene	98-95-3	5.0	BDL
Isophorone	78-59-1	5.0	BDL
2-Nitrophenol	88-75-5	5.0	BDL
2,4-Dimethylphenol	105-67-9	5.0	BDL
bis(2-Chloroethoxy)methane	111-91-1	5.0	BDL
2,4-Dichlorophenol	120-83-2	5.0	BDL
1,2,4-Trichlorobenzene	120-82-1	5.0	BDL
Naphthalene	91-20-3	5.0	BDL
Hexachlorobutadiene	87-68-3	5.0	BDL
4-Chloro-3-methylphenol	59-50-7	5.0	BDL
2,4,6-Trichlorophenol	88-06-2	5.0	BDL
2-Chloronaphthalene	91-58-7	5.0	BDL
Dimethylphthalate	131-11-3	5.0	BDL
Acenaphthylene	208-96-8	5.0	BDL
Acenaphthene	83-32-9	5.0	BDL
2,4-Dinitrophenol	51-28-5	25.0	BDL

Page 2 continued

COMPANY NAME: Legacy Environmental
 COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
 HYDROLOGIC PROJECT NUMBER: FL952623
 HYDROLOGIC SAMPLE NUMBER: 952626
 SAMPLE IDENTIFICATION: MW-5
 DATE SAMPLED: 2/1/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
4-Nitrophenol	100-02-7	25.0	BDL
2,4-Dinitrotoluene	121-14-2	5.0	BDL
2,6-Dinitrotoluene	606-20-2	5.0	BDL
Diethylphthalate	84-66-2	5.0	BDL
4-Chlorophenyl-phenylether	7005-72-3	5.0	BDL
Fluorene	86-73-7	5.0	BDL
4,6-Dinitro-2-methylphenol	534-52-1	25.0	BDL
4-Bromophenyl-phenylether	101-55-3	5.0	BDL
Hexachlorobenzene	118-74-1	5.0	BDL
Pentachlorophenol	87-86-5	25.0	BDL
Phenanthrene	85-01-8	5.0	BDL
Anthracene	120-12-7	5.0	BDL
Di-n-butylphthalate	84-74-2	5.0	BDL
Fluoranthene	206-44-0	5.0	BDL
Pyrene	129-00-0	5.0	BDL
Butylbenzylphthalate	85-68-7	5.0	BDL
3,3'-Dichlorobenzidine	91-94-1	10.0	BDL
Benzo(a)anthracene	56-55-3	5.0	BDL
bis(2-Ethylhexyl)phthalate	117-81-7	5.0	BDL
Chrysene	218-01-9	5.0	BDL
Di-n-octylphthalate	117-84-0	5.0	BDL
Benzo(b)fluoranthene	205-99-2	5.0	BDL
Benzo(k)fluoranthene	207-08-9	5.0	BDL
Benzo(a)pyrene	50-32-8	5.0	BDL

H Y D R O L O G I C , I N C .

Page 3 continued

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952626
SAMPLE IDENTIFICATION: MW-5
DATE SAMPLED: 2/1/95

METHOD EPA 625

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Indeno(1,2,3-cd)pyrene	193-39-5	5.0	BDL
Dibenz(a,h)anthracene	53-70-3	5.0	BDL
Benzo(g,h,i)perylene	191-24-2	5.0	BDL
Hexachlorocyclopentadiene	77-47-4	10.0	BDL
N-Nitrosodiphenylamine	86-30-6	10.0	BDL
Benzidine	92-87-5	80.0	BDL
N-Nitrosodimethylamine	62-75-9	10.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952626
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-5
DATE SAMPLED: 2/1/95
DATE EXTRACTED: 2/6/95
DATE/TIME ANALYZED: 2/11/95

TEMPERATIVELY IDENTIFIED COMPOUNDS
(water samples)

<u>COMPOUND NAME</u>	<u>SDL</u> (ug/l)	<u>ESTIMATED</u> <u>CONCENTRATION</u> (ug/l)
NO COMPOUNDS IDENTIFIED	10.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

H Y D R O L O G I C , I N C .

COMPANY NAME: Legacy Environmental
COMPANY PROJECT NUMBER: #YARBORO PROPERTY/P-342A
HYDROLOGIC PROJECT NUMBER: FL952623
HYDROLOGIC SAMPLE NUMBER: 952626
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-5
DATE SAMPLED: 2/1/95
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 2/6/95

METHOD EPA 602

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Benzene	71-43-2	1.0	BDL
Chlorobenzene	108-90-7	1.0	BDL
1,2-Dichlorobenzene	95-50-1	1.0	BDL
1,3-Dichlorobenzene	541-73-1	1.0	BDL
1,4-Dichlorobenzene	106-46-7	1.0	BDL
Ethylbenzene	100-41-4	1.0	BDL
Toluene	108-88-3	1.0	BDL
Xylene (Total)	1330-20-7	1.0	BDL
Surrogate Recovery: BFB			90%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

APPENDIX B

SOIL BORING LOGS AND WELL CONSTRUCTION RECORDS

SOIL BORING LOG

Legacy Environmental Services, Inc.

Job Name:	Melvin Yarborough property		
Address:	2205 Oak Hill Dr.		
Job No.:	P-342	Drilling Method:	4in. Solid Stem Auger
Start Date:	12/13/94	Sample Method:	Cuttings Collected
Driller:	Legacy Environmental Services	Sampled By:	
Reg. No.:	1470	Logged By:	KBM
Boring No.:	MW-2		
Comments:			

Sample Number	Depth (ft.)	Soil Description (color, soil type, moisture)	Blow Counts	OVA (ppm)
MW-2	3	red, CLAY with trace silt, damp		<5
	6	red, CLAY with trace silt, damp		<5
	9	red, SILT with clay, damp		<5
	12	red, SILT with clay, damp		<5
	15	red, SILT with clay, damp		<5
	18	brown, CLAY with silt, damp		<5
	21	brown, CLAY with trace silt, moist		<5
	24	brown, CLAY with trace silt, moist		<5
	27	brown, CLAY with trace silt, wet		<5
	30	brown, CLAY with trace silt, wet		<5
	33	brown, CLAY with trace silt, wet		<5
	36	brown, CLAY with trace silt, wet		<5
		Boring terminated at 36'.		
	P-342B			

SOIL BORING LOG

Legacy Environmental Services, Inc.

Job Name:	Melvin Yarborough property		
Address:	2205 Oak Hill Dr.		
Job No.:	P-342	Drilling Method:	4in. Solid Stem Auger
Start Date:	12/13/94	Sample Method:	Cuttings Collected
Driller:	Legacy Environmental Services	Sampled By:	
Reg. No.:	1470	Logged By:	KBM
Boring No.:	MW-3		
Comments:			

Sample Number	Depth (ft.)	Soil Description (color, soil type, moisture)	Blow Counts	OVA (ppm)
MW-3	3	red, SILT, damp		<5
	6	red, SILT with trace clay, damp		<5
	9	red, SILT with trace clay, damp		<5
	12	red, SILT with trace clay, damp		<5
	15	red, CLAY with some silt, moist		<5
	18	brown, CLAY with some silt, moist		<5
	21	brown, CLAY with some silt, moist		<5
	24	brown, CLAY with trace silt, moist		<5
	27	brown, CLAY with some silt, wet		<5
	30	brown, CLAY with some silt, wet		<5
	33	brown, CLAY with some silt, wet		<5
	36	brown, CLAY with some silt, wet		<5
		Boring terminated at 36'.		
	P-342B			

SOIL BORING LOG

Legacy Environmental Services, Inc.

Job Name:	Melvin Yarborough property		
Address:	2205 Oak Hill Dr.		
Job No.:	P-342	Drilling Method:	4in. Solid Stem Auger
Start Date:	12/13/94	Sample Method:	Cuttings Collected
Driller:	Legacy Environmental Services	Sampled By:	
Reg. No.:	1470	Logged By:	KBM
Boring No.:	MW-4		
Comments:			

Sample Number	Depth (ft.)	Soil Description (color, soil type, moisture)	Blow Counts	OVA (ppm)
MW 4	3	red, SILT, damp		<5
	6	red, SILT, damp		<5
	9	red, SILT with trace clay, damp		<5
	12	red, SILT with some clay, damp		<5
	15	brown, CLAY with some silt, moist		<5
	18	brown, CLAY with some silt, moist		<5
	21	brown, CLAY with some silt, moist		<5
	24	brown, CLAY with some silt, wet		<5
	27	brown, CLAY with some silt, wet		<5
	30	brown, CLAY with some silt, wet		<5
	33	brown, CLAY with some silt, wet		<5
	36	brown, CLAY with some silt, wet		<5
		Boring terminated at 36'.		
	P-342C			

SOIL BORING LOG

Legacy Environmental Services, Inc.

Job Name: <u>Melvin Yarborough property</u>	
Address: <u>2205 Oak Hill Dr.</u>	
Job No.: <u>P-342</u>	Drilling Method: <u>4" Solid Stem Auger</u>
Start Date: <u>12/13/94</u>	Sample Method: <u>Cuttings Collected</u>
Driller: <u>Legacy Environmental Services</u>	Sampled By: _____
Reg. No.: <u>1470</u>	Logged By: <u>TRR</u>
Boring No.: <u>MW-5</u>	
Comments: _____	

Sample Number	Depth (ft.)	Soil Description (color, soil type, moisture)	Blow Counts	OVA (ppm)
MW-5	3	Dark red, SILT with some clay, Damp		<5
	6	Dark red, SILT with trace clay, Damp		<5
	9	Dark red, SILT with trace clay, Damp		<5
	12	Light red, SILT with some clay, Damp		<5
	15	Light red, CLAY with some silt, Moist		<5
	18	Light red, CLAY with some silt, Moist		<5
	21	Brown-red, SILT with little clay, trace of medium sand, Moist		<5
	24	Same as 21'		<5
	27	Brown, SILT with little clay, trace of fine to medium sand, Wet		<5
	30	Same as 27'		<5
		No soils logged after 30'		
		Boring terminated at 36'.		
	P-342D			

FOR OFFICE USE ONLY

QUAD NO. _____ SERIAL NO. _____
 Cat. _____ Long. _____ RO _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Legacy Environmental

DRILLER REGISTRATION NUMBER: 1470

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Greensboro County: Guilford

2205 Oak Hill Dr.

(Road, Community, or Subdivision and Lot No.)

2. OWNER Melvin Yarborough

ADDRESS 1072 Tarry Church Rd.

(Street or Route No.)

Star

NC

27356

City or Town

State

Zip Code

3. DATE DRILLED 12/13/94 USE OF WELL Monitor

4. TOTAL DEPTH 34

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 21.24 FT.

(Use "+" if Above Top of Casing)

8. TOP OF CASING IS .5 FT. Above Land Surface*

* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): _____ METHOD OF TEST _____

10. WATER ZONES (depth): _____

11. CHLORINATION: Type _____ Amount _____

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0		14	2"	Sch 40	PVC
From		To	Ft.		
From		To	Ft.		

13. GROUT:

From	Depth	To	Material	Method
0		10	Portland	Hand Mix
From		To	Ft.	

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
14		34	2" in.	.01" in.	PVC
From		To	Ft.	in.	in.
From		To	Ft.	in.	in.

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
12		34	#2	Wash Sand
From		To	Ft.	

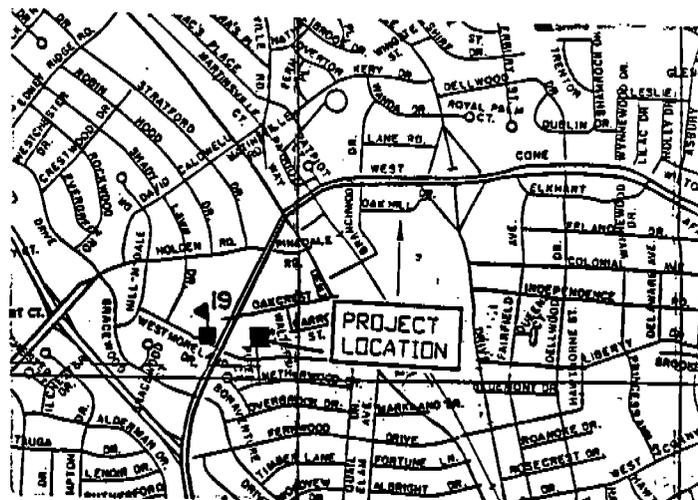
16. REMARKS: LES Job # P-342 Well ID # MW-2

DEPTH		DRILLING LOG
From	To	Formation Description
0	6	red, damp clay w/ trace silt
6	15	red, damp silt w/ some clay
15	21	brown, moist clay w/ little silt
21	36	brown, wet clay w/ trace silt

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)



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.

Melvin Yarborough

SIGNATURE OF CONTRACTOR OR AGENT

3/10/95

DATE

FOR OFFICE USE ONLY	
QUAD NO.	SERIAL NO.
Lat	Long
Minor Basin	
Basin Code	
Header Ent	GW-1 Ent

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Legacy Environmental

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

DRILLER REGISTRATION NUMBER: 1470

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Greensboro County: Guilford

2205 Oak Hill Drive

(Road, Community, or Subdivision and Lot No.)

2. OWNER Melvin Yarborough

ADDRESS 1072 Tarry Church Rd.

(Street or Route No.)

Star NC 27356

City or Town State Zip Code

3. DATE DRILLED 12/13/94 USE OF WELL Monitor

4. TOTAL DEPTH 34'

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 20.36 FT.

(Use "+" if Above Top of Casing)

8. TOP OF CASING IS .5 FT. Above Land Surface*

* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): _____ METHOD OF TEST _____

10. WATER ZONES (depth): _____

11. CHLORINATION: Type _____ Amount _____

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0	14	Ft.	2"	Sch 40	PVC
From	To	Ft.			
From	To	Ft.			

13. GROUT:

From	Depth	To	Material	Method
0	10	Ft.	Portland	Hand Mix
From	To	Ft.		

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
14	34	Ft.	2	.01"	Sch 40 PVC
From	To	Ft.			
From	To	Ft.			

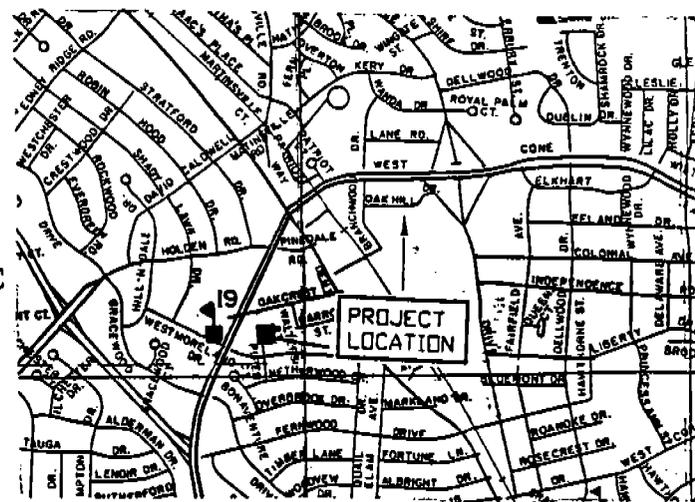
15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
12	34	Ft.	#2	Wash Sand
From	To	Ft.		

16. REMARKS: LES Job # P-342 Well ID # MW-3

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)



Document # _____

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.

[Signature]
 SIGNATURE OF CONTRACTOR OR AGENT

3/10/95
 DATE

APPENDIX C

STANDARD OPERATING PROCEDURES

**STANDARD OPERATING PROCEDURES
LEGACY ENVIRONMENTAL SERVICES, INC.**

I. FIELD SCREENING OF SOILS

1. Calibrate instrument prior to use in accordance with manufacturer's recommended procedures and certified calibration gas standard. Calibrate PIDs with isobutylene standards; FID with methane gas standards.
2. Collect soil samples using decontaminated augers or other sampling devices. Using disposable Latex gloves, place soils in a "zip-lock" type plastic bag, agitate and allow to equilibrate in sunlight for a minimum of 15 minutes.
3. Insert tip of field sampling equipment into sample bag, approximately 1/2" from soil, leaving bag sealed as much as practical.
4. After reading has stabilized, record sample number and contaminant level in parts per million.
5. Checked instrument for drift using the standard calibration gas at intervals between sampling and at the end of the days use. Recalibrate instrument as necessary.

II. SAMPLE HANDLING

1. Samples collected for laboratory analysis should be handled using disposable Latex gloves. Do not re-use gloves.
2. Place samples into laboratory supplied glassware, in a quantity sufficient for laboratory analyses to be conducted and with minimization of head-space. Tighten sample jar lid securely.
3. Label samples with sample ID, time sampled, date, and analyses to be performed. Immediately place sample containers on ice and cool to approximately 4 degrees Celsius.
4. Store all samples on ice or refrigerate until delivered to certified laboratory.
5. Complete a chain of custody (COC) record for laboratory samples; sign and date COC when samples are relinquished in accordance with EPA chain of custody protocol.

III. WELL DEVELOPMENT & SAMPLING - BALER METHOD

1. Compute volume of the water in well to be sampled. Volume of 2" well is 0.163 gallons/foot; Volume of 4" well is 0.653 gallons/foot.
2. Use new disposable baler to develop well and collect sample. Submerge baler with new nylon string. Handle baler and string with disposable Latex gloves.
3. Develop well by removing 3 volumes of water with baler. Empty baler into 5 gallon bucket, 55 gallon drum or other container. Handle and dispose of water properly.
4. Allow well at least 24 hours to recover, then re-develop by removing 3 volumes of water or removing water until stable readings of pH, temperature, and conductivity are obtained.
5. After well development, obtain water sample. Place water sample into laboratory supplied glassware. Fill volatile organic containers completely full, allowing no air bubbles. Fill semi-volatile sample containers as directed by laboratory performing analyses.
6. Transport and handle samples in accordance with Legacy Standard Operating Procedure "Sample Handling".

IV. EQUIPMENT DECONTAMINATION

1. Decontaminate augers, split spoons and other sampling equipment at staged decontamination area via the following procedure:
 - A. Soap and tap water wash;
 - B. Tap water rinse;
 - C. Distilled deionized water rinse;
 - D. Isopropyl alcohol rinse;
 - E. Double distilled water rinse.
2. Where practical, use new disposable sampling equipment.

APPENDIX D

SOIL ANALYTICAL RESULTS

Analytical Services • Aquatic Bioassay Testing • Aquatic Toxicity Reduction Evaluations
AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services
PMN Aquatic Bioassay Evaluations



Post Office Box 2481 • 615 Huffman Mill Road • (919) 584-5564 • Burlington, NC 27216-2481

March 08, 1993

G and H Oil Equipment, Inc.
P.O. Box 7446
Greensboro, NC 27417

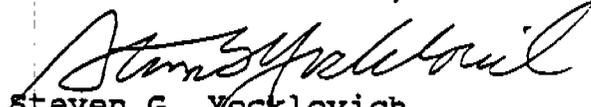
Attention: William "Bill" Hill

Enclosed find report(s) for your sample(s) received 02/25/93,
BRI Work Order # 93-02-532. Please call if you have any
questions.

Thank you.

Sincerely,

BURLINGTON RESEARCH, INC.



Steven G. Yocklovich
Vice President, Customer &
Technical Services



Analytical Services • Aquatic Bioassay Testing • Aquatic Toxicity Reduction Evaluation
 AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services
 PMN Aquatic Bioassay Evaluations

Post Office Box 2481 • 615 Huffman Mill Road • (919) 584-5564 • Burlington, NC 27216-2481

ANALYTICAL REPORT

CUSTOMER: G and H Oil Equipment, Inc.
FACILITY: 4232 High Point Road
REPORT TO: William "Bill" Hill
SAMPLE: Melvin Yarboro
 DN-1 at 8' Grab 2/24/93

WORK ORDER #: 93-02-532-01
COLLECTED: 02/24/93
RECEIVED: 02/25/93
REPORTED: 03/08/93

PARAMETER	METHOD	STARTED	ANALYZED	RESULT
TPH-I, Soils	EPA 5030/GC	03/01/93	03/01/93	Attached
TPH-II, Soil	EPA 3550/GC	02/26/93	03/05/93	Attached



Analytical Services • Aquatic Bioassay Testing • Aquatic Toxicity Reduction Evaluations
AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services
PMN Aquatic Bioassay Evaluations

Post Office Box 2481 • 615 Huffman Mill Road • (919) 584-5564 • Burlington, NC 27216-2481

EPA METHOD 5030 WITH CALIFORNIA GC METHOD
TOTAL PETROLEUM HYDROCARBONS - TYPE I, IN SOILS

WORK ORDER #: 93-02-532-01

TPH: 89.7 mg/kg (ppm)

TPH Standard used: Fuel Oil #2

% Recovery of Standard: 83

% Solids: 73



Analytical Services • Aquatic Bioassay Testing • Aquatic Toxicity Reduction Evaluations
AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services
PMN Aquatic Bioassay Evaluations

Post Office Box 2481 • 615 Huffman Mill Road • (919) 584-5564 • Burlington, NC 27216-2481

EPA METHOD 3550 WITH CALIFORNIA GC METHOD

TOTAL PETROLEUM HYDROCARBONS - TYPE II
IN SOILS

WORK ORDER #: 93-02-532-01

TPH: 103 mg/Kg (ppm)

TPH Standard used: #2 Heating Oil

% Recovery of Standard: 94

% Solids: 73



Analytical Services • Aquatic Bioassay Testing • Aquatic Toxicity Reduction Evaluation
 AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services
 PMN Aquatic Bioassay Evaluation

Post Office Box 2481 • 615 Huffman Mill Road • (919) 584-5564 • Burlington, NC 27216-2481

ANALYTICAL REPORT

CUSTOMER:	G and H Oil Equipment, Inc.	WORK ORDER #:	93-02-532-02
FACILITY:	4232 High Point Road	COLLECTED:	02/24/93
REPORT TO:	William "Bill" Hill	RECEIVED:	02/25/93
SAMPLE:	Melvin Yarboro	REPORTED:	03/08/93
	DS-2 at 8' Grab 2/24/93		

PARAMETER	METHOD	STARTED	ANALYZED	RESULT
TPH-I, Soils	EPA 5030/GC	03/01/93	03/01/93	Attached
TPH-II, Soil	EPA 3550/GC	02/26/93	03/05/93	Attached



Analytical Services • Aquatic Bioassay Testing • Aquatic Toxicity Reduction Evaluation
AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services
PMN Aquatic Bioassay Evaluations

Post Office Box 2481 • 615 Huffman Mill Road • (919) 584-5564 • Burlington, NC 27216-2481

EPA METHOD 5030 WITH CALIFORNIA GC METHOD
TOTAL PETROLEUM HYDROCARBONS - TYPE I, IN SOILS

WORK ORDER #: 93-02-532-02

TPH: 145 mg/kg (ppm)

TPH Standard used: Fuel Oil #2

% Recovery of Standard: 83

% Solids: 75

Analytical Services • Aquatic Bioassay Testing • Aquatic Toxicity Reduction Evaluation
AATCC Testing Services • NPDES Testing • Reporting & Data Handling Services
PMN Aquatic Bioassay Evaluations



Post Office Box 2481 • 615 Huffman Mill Road • (919) 584-5564 • Burlington, NC 27216-2481

EPA METHOD 3550 WITH CALIFORNIA GC METHOD

TOTAL PETROLEUM HYDROCARBONS - TYPE II
IN SOILS

WORK ORDER #: 93-02-532-02

TPH: 1,450 mg/Kg (ppm)

TPH Standard used: #2 Heating Oil

% Recovery of Standard: 94

% Solids: 75



915 Huffman Mill Road
 Burlington, NC 27216
 (919) 584-5644
 Fax (919) 584-5644, Ext. 202

CHAIN OF CUSTODY RECORD

CLIENT: G+H Oil Equipment, Inc. CONTACT PERSON: Bill Hill
 Facility/Site: Melvin Yarbero 2205 Oak Hill Dr, Phone Number: (919) 292-5143
 Sampler: (Print) Donald Messers Purchase Order #: 227

SAMPLE ID	SAMPLE COLLECTION		SAMPLE TYPE			NO. OF CON-TAINERS SENT	ANALYSES REQUIRED	FOR LAB USE ONLY		
			COMPOSITE		GRAB			SAMPLE INTEGRITY	TEMPERATURE (°C)	PRESERVATION
			HAND	AUTO						
DA1A+8'	1030	2/24/93			✓	1	5030, 3550 (#2 Fuel Oil)			
DS2A+8'	1030	2/24/93			✓	1	5030, 3550 (#2 Fuel Oil)			

FOR CLIENT USE:
 Relinquished by: Donald Messers (Signature) Received by: _____ (Signature) Date: 2-25-93 Time: 9:10 AM
 Shipped by: _____ (Signature) Received by: _____ (Signature) Date: _____ Time: _____

Method of Shipment: _____ Figure 3
FOR LAB USE ONLY
 Received in Lab FROM: Donald Messers (Signature) Received for Lab BY: [Signature] (Signature) Date: 2-25-93 Time: 0910
 Method of Shipment: Hand Sample Integrity Comment: _____

Water Technology And Controls, INC.
Water Treatment Chemistries & Environmental Laboratory
Reidsville, North Carolina 27320
(910) 342-4748

February 16, 1995
Project: Yarboro Property
Project Number: P-324D
Sample Collection Date: 2-9-95

Metals by EPA Method 3030C
Lead (mg/L)

<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5</u>
< 0.012	< 0.012	0.045	0.020	< 0.012

California TPH Method 3550
(mg/kg)

<u>B1-8</u>	<u>B1-16</u>	<u>B2-8</u>	<u>B2-16</u>	<u>B3-8</u>	<u>B3-16</u>	<u>B4-8</u>	<u>B4-16</u>
< 40.0	< 40.0	120	820	< 40.0	425	< 40.0	< 40.0



LEGACY ENVIRONMENTAL SERVICES, INC.

P.O. Box 4560, Greensboro, NC 27404-4560, Phone (910) 316-0452, FAX (910) 299-1961

CHAIN OF CUSTODY RECORD

FACILITY: Yarboro Property

LES JOB#: P-342D

SAMPLERS (Signature) <i>T. R. Kelly</i>									
SAMPLE NUMBER	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE			NO. OF CONT.	ANALYSIS REQUIRED	
				WATER		SOIL			
				COMP	GRAB				
B1-8	Boring # 1, 8' deep	2/9/95	4:00p			X	1	EPA 3550	
B1-16	" 1, 16' "		4:10p			X	1		
B2-8	" 2, 8' "		4:26p			X	1		
B2-16	" 2, 16' "		4:36p			X	1		
B3-8	" 3, 8' "		4:53p			X	1		
B3-16	" 3, 16' "		5:05p			X	1		
B4-8	" 4, 8' "		5:20p			X	1		
B4-16	" 4, 16' "		5:31p			X	1	✓	
MW-1	Monitor Well # 1		4:50p			X		Std. Method 30300	
MW-2	# 2		4:53p			X		↓	
MW-3	# 3		5:00p			X		↓	
MW-4	# 4		5:05p			X		↓	
MW-5	# 5		5:10p			X		↓	

Relinquished by: (Signature) <i>T. R. Kelly</i>	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Methods of Shipment	Received for Laboratory by:	Date/Time
Conditions upon receipt	Remarks:	

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

Legacy Environmental
P.O. Box 4560
Greensboro, NC 27404-

REPORT DATE: 03/28/95

SAMPLE NUMBER- 6655 SAMPLE ID- Boring 1 @ 8'
DATE SAMPLED- 03/20/95
DATE RECEIVED- 03/21/95 SAMPLER- T. Rigby
TIME RECEIVED- 845 DELIVERED BY- FED X

SAMPLE MATRIX- SO
TIME SAMPLED- 415
RECEIVED BY- TWM

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
TPH Gasoline, Solid Heavy fuel present.	5030/8015	03/21/95	TWM	< 2.0 mg/kg	2.0

LABORATORY DIRECTOR *Jim Clonahan*

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

Legacy Environmental
P.O. Box 4560
Greensboro, NC 27404-

REPORT DATE: 03/28/95

SAMPLE NUMBER- 6656 SAMPLE ID- Boring 1 @ 16'
DATE SAMPLED- 03/20/95
DATE RECEIVED- 03/21/95 SAMPLER- T. Rigby
TIME RECEIVED- 845 DELIVERED BY- FED X

SAMPLE MATRIX- SO
TIME SAMPLED- 420
RECEIVED BY- TWM

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
TPH Gasoline, Solid Heavy fuel present.	5030/8015	03/21/95	TWM	4.4 mg/kg	2.0

LABORATORY DIRECTOR

Scot Clancher

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

Legacy Environmental
P.O. Box 4560
Greensboro, NC 27404-

REPORT DATE: 03/28/95

SAMPLE NUMBER- 6657 SAMPLE ID- Boring 2 @ 8'
DATE SAMPLED- 03/20/95
DATE RECEIVED- 03/21/95 SAMPLER- T. Rigby
TIME RECEIVED- 845 DELIVERED BY- FED X

SAMPLE MATRIX- SO
TIME SAMPLED- 433
RECEIVED BY- TWM

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
TPH Gasoline, Solid	5030/8015	03/21/95	TWM	< 2.0 mg/kg	2.0

LABORATORY DIRECTOR

George Clancher

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

Legacy Environmental
P.O. Box 4560
Greensboro, NC 27404-

REPORT DATE: 03/28/95

SAMPLE NUMBER- 6658 SAMPLE ID- Boring 2 @ 16'
DATE SAMPLED- 03/20/95
DATE RECEIVED- 03/21/95 SAMPLER- T. Rigby
TIME RECEIVED- 845 DELIVERED BY- FED X

SAMPLE MATRIX- SO
TIME SAMPLED- 440
RECEIVED BY- TWM

Page 1 of 1

ANALYSIS

TPH Gasoline, Solid
Heavy fuel present.

METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
5030/8015	03/21/95	TWM	< 2.0 mg/kg	2.0

LABORATORY DIRECTOR

Jim Clancher

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

Legacy Environmental
P.O. Box 4560
Greensboro, NC 27404-

REPORT DATE: 03/28/95

SAMPLE NUMBER- 6659 SAMPLE ID- Boring 3 @ 8'
DATE SAMPLED- 03/20/95
DATE RECEIVED- 03/21/95 SAMPLER- T. Rigby
TIME RECEIVED- 845 DELIVERED BY- FED X

SAMPLE MATRIX- SO
TIME SAMPLED- 447
RECEIVED BY- TWM

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
TPH Gasoline, Solid	5030/8015	03/21/95	TWM	< 2.0 mg/kg	2.0

LABORATORY DIRECTOR

Yunf. Clonahan

H Y D R O L O G I C I N C

FINAL REPORT OF ANALYSES

Legacy Environmental
P.O. Box 4560
Greensboro, NC 27404-

REPORT DATE: 03/28/95

SAMPLE NUMBER- 6660 SAMPLE ID- Boring 3 @ 16'
DATE SAMPLED- 03/20/95
DATE RECEIVED- 03/21/95 SAMPLER- T. Rigby
TIME RECEIVED- 845 DELIVERED BY- FED X

SAMPLE MATRIX- SO
TIME SAMPLED- 453
RECEIVED BY- TWM

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
TPH Gasoline, Solid	5030/8015	03/21/95	TWM	< 2.0 mg/kg	2.0

LABORATORY D Jeff Clancher

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

Legacy Environmental
P.O. Box 4560
Greensboro, NC 27404-

REPORT DATE: 03/28/95

SAMPLE NUMBER- 6661 SAMPLE ID- Boring 4 @ 8'
DATE SAMPLED- 03/20/95
DATE RECEIVED- 03/21/95 SAMPLER- T. Rigby
TIME RECEIVED- 845 DELIVERED BY- FED X

SAMPLE MATRIX- SO
TIME SAMPLED- 500
RECEIVED BY- TWM

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
TPH Gasoline, Solid	5030/8015	03/21/95	TWM	< 2.0 mg/kg	2.0

LABORATORY DIRECTOR *Jimmy Clanchan*

H Y D R O L O G I C , I N C .

FINAL REPORT OF ANALYSES

Legacy Environmental
P.O. Box 4560
Greensboro, NC 27404-

REPORT DATE: 03/28/95

SAMPLE NUMBER- 6662 SAMPLE ID- Boring 4 @ 16'
DATE SAMPLED- 03/20/95
DATE RECEIVED- 03/21/95 SAMPLER- T. Rigby
TIME RECEIVED- 845 DELIVERED BY- FED X

SAMPLE MATRIX- SO
TIME SAMPLED- 505
RECEIVED BY- TWM

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
TPH Gasoline, Solid	5030/8015	03/21/95	TWM	< 2.0 mg/kg	2.0

LABORATORY DIRECTOR

Guy C. Clancher



LEGACY ENVIRONMENTAL SERVICES, INC.

P.O. Box 4560, Greensboro, NC 27404-4560. Phone (910) 316-0452. FAX (910) 299-1961

CHAIN OF CUSTODY RECORD

FACILITY: YARBROUGH PROPERTY

LES JOB#: P-342E

SAMPLERS (Signature) Tom R. Ryley Printed Name: Tom Ryley

SAMPLE NUMBER	SAMPLE LOCATION	DATE	TIME	SAMPLE TYPE			NO. OF CONT.	ANALYSIS REQUIRED
				WATER COMP	WATER GRAB	SOIL		
6655	B1-8	3/20/95	4:15p			X	1	5030
6656	B1-16		4:20p			X	1	
6657	B2-8		4:33p			X	1	
6658	B2-16		4:40p			X	1	
6659	B3-8		4:47p			X	1	
6660	B3-16		4:53p			X	1	
6661	B4-8		5:00p			X	1	
6662	B4-16		5:05p			X	1	✓

Note: Our written purchase order accompanied by this record is your notice to proceed.

Relinquished by: (Signature) <u>Tom Ryley</u>	Received by: (Signature) <u>Jim Claxton</u>	Date/Time <u>3/21/95 9:00a</u>
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Methods of Shipment <u>FED X</u>	Received for Laboratory by:	Date/Time
Conditions upon receipt	Remarks:	

APPENDIX E

SSE FORMWORK

Site Sensitivity Evaluation (SSE)

Site Characteristics Evaluation (Step 1)

Characteristic	Condition	Rating	
Grain Size*	Gravel	150	50
	Sand	100	
	Silt	50	
	Clay	0	
Are relict structures, sedimentary structures, and/or textures present in the zone of contamination and underlying "soils"?	Present and intersecting the water table.	10	10
	Present but <u>not</u> intersecting the water table.	5	
	None present.	0	
Distance from location of deepest contaminated soil** to water table.	0 - 5 feet (C, D & E sites only)	20	20
	5 - 10 feet	20	
	>10 - 40 feet	10	
	> 40 feet	0	
	> 40 feet	0	
Is the top of bedrock or transmissive indurated sediments located above the water table?	Yes	20	0
	No	0	
Artificial conduits present within the zone of contamination.	Present and intersecting the water table.	10	0
	Present but <u>not</u> intersecting the water table.	5	
	Not present.	0	

Total Site Characteristics Score:	80
--	-----------

* **Predominant** grain size based on Unified Soil Classification System or U.S. Dept. of Agriculture's Soil Classification Method.

** (>10 ppm TPFH by Method 5030; >40 ppm TPFH by Method 3550; >250 ppm O&G by Method 9071)

Site Sensitivity Evaluation (SSE)

Initial Cleanup Level
(Step 2)

Final Cleanup Level
(Step 3)

EPA Method 5030 for Low Boiling Point Hydrocarbons such as Gasoline, Aviation Fuels, Gasohol

Total Site Characteristics Score	Initial Cleanup Level TPFH (ppm)	Select Site Category*	Category	Final Cleanup Level
>150	≤10	Select Site Category* 	Category A & B (Multiply initial cleanup level by 1)	1 x _____ = _____ ppm
121-150	20		Category C & D (Multiply initial cleanup level by 2)	2 x _____ = _____ ppm
91-120	40		Category E (Multiply initial cleanup level by 3)	3 x 60 = 180 ppm
61-90	60			
31-60	80			
0-30	100			

EPA Method 3550 for High Boiling Point Hydrocarbons such as Kerosene, Diesel, Varsol, Mineral Spirits, Naphtha

Total Site Characteristics Score	Initial Cleanup Level TPFH (ppm)	Select Site Category*	Category	Final Cleanup Level
>150	≤40	Select Site Category* 	Category A & B (Multiply initial cleanup level by 1)	1 x _____ = _____ ppm
121-150	80		Category C & D (Multiply initial cleanup level by 2)	2 x _____ = _____ ppm
91-120	160		Category E (Multiply initial cleanup level by 3)	3 x 240 = 720 ppm
61-90	240			
31-60	320			
0-30	400			

EPA Method 9071 for Heavy Fuels - Oil & Grease (O&G) such as Fuel Oil #4, #5, #6, Motor Oil, Hydraulic Fluid

Total Site Characteristics Score	Initial Cleanup Level O&G (ppm)	Select Site Category*	Category	Final Cleanup Level
>150	≤250	Select Site Category* 	Category A & B (Multiply initial cleanup level by 1)	1 x _____ = _____ ppm
121-150	400		Category C & D (Multiply initial cleanup level by 2)	2 x _____ = _____ ppm
91-120	550		Category E (Multiply initial cleanup level by 3)	3 x _____ = _____ ppm
61-90	700			
31-60	850			
0-30	1000			

* See Site Category Descriptions, Table 3