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NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES

AND COMMUNITY DEVELOPMENT

DIVISION OF ENVIRONMENTAL MANAGEMENT

GROUNDWATER SECTION

PRELIMINARY INVESTIGATION

TRI-COUNTY COMMUNITY COLLEGE

GROUNDWATER INCIDENT NO. 3371

CERCLA

by Donald R. Link
Diane M. A. Eskenasy

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INTRODUCTION

On January 2, 1987, the Asheville Regional Office of the Division of Environmental Management was notified that a groundwater investigation being conducted on the property of Clifton Precision Products, approximately 2 1/4 miles from Tri-County Community College, had revealed chlorinated solvents in their water-supply wells and monitor wells (Figure 1).

On January 12, 1987, the Division in cooperation with the Cherokee County Health Department, began a groundwater sampling program from the area of Clifton Precision Products downstream to the area of Emerson Electric Company and Tri-County Community College. The results of a sample taken on January 19, 1987, from the water-supply well at Tri-County Community College indicated contamination by trichloroethene (300 ug/l) and tetrachloroethene (0.06 ug/l). Subsequently, Tri-County Community College was advised by Dr. Ted Taylor, Toxicologist for the Environmental Epidemiology Branch of the N. C. Department of Human Resources, not to utilize the water for human consumption. The College is currently using bottled water for drinking.

After reviewing initial sample results from the area and a history of site use at the Tri-County Community College property, the Division concluded that the pollution source for the College well may be on their property. As a result of this assumption, the Division began a groundwater investigation on site.

OBJECTIVE

The objectives of this investigation were to determine the source of trichloroethene found in the drilled water-supply well utilized by Tri-County Community College and a bored water-table well at the auto shop on the property to determine the direction of groundwater movement, and document any groundwater standard violations. The possible sources on site include: 1) a septic tank with a discharging sand filter bed; 2) a machine shop; 3) an auto body shop; 4) the chemistry labs; and 5) other buildings once used by the N. C. Department of Corrections, the N. C. Department of Transportation, and Clifton Precision Products, a manufacturer of electrical motors.

SITE HISTORY

A site inspection report prepared by the Solid & Hazardous Waste Management Branch of the N. C. Department of Human Resources (DHR) revealed the following use of the site: Tri-County Community College, 1967 to present;

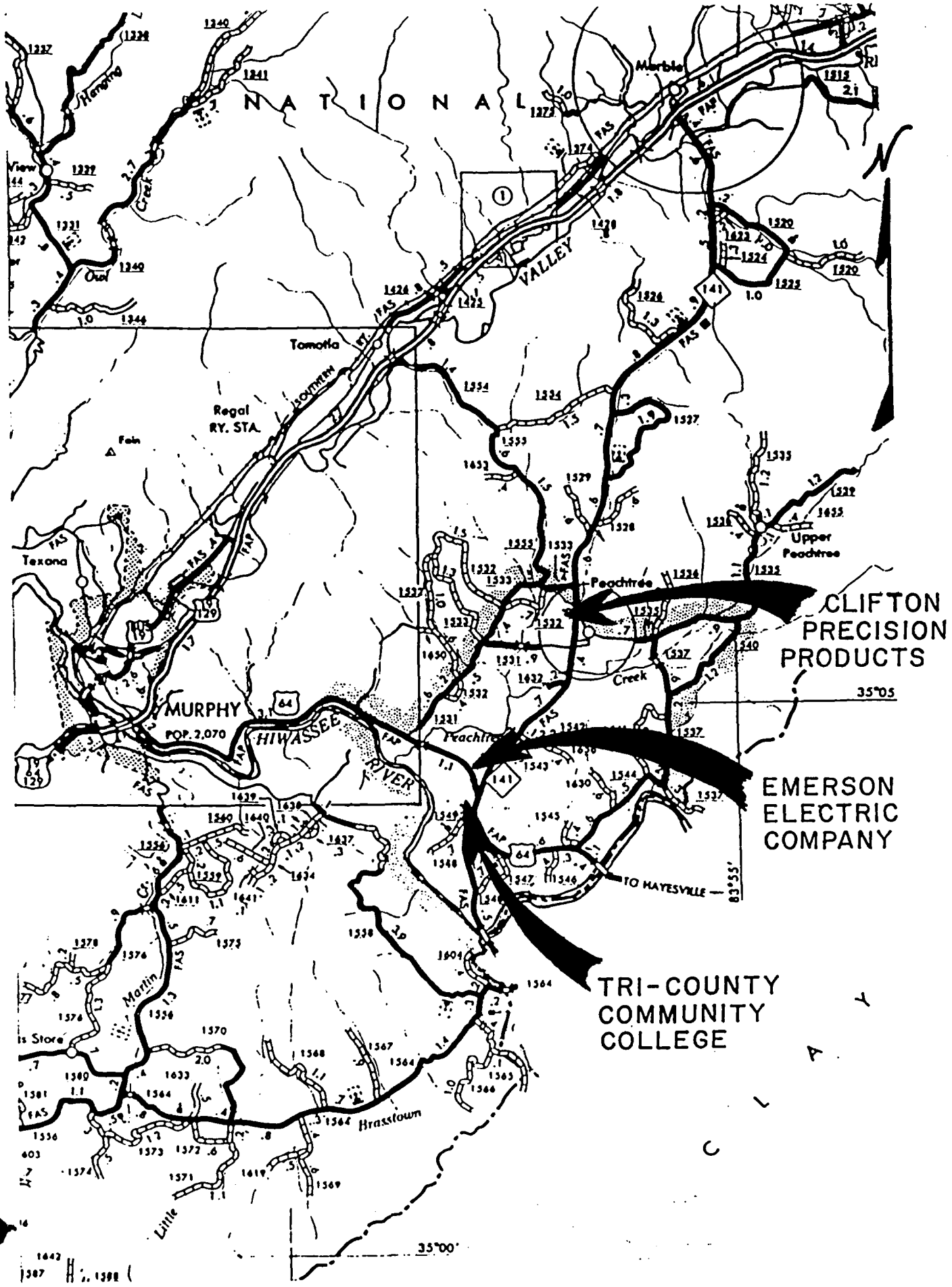

FIGURE 1 SITE LOCATION MAP

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N. C. Department of Transportation (DOT) maintenance facility, until August, 1976; Clifton Precision Products, March, 1966, until January, 1967; and the N. C. Department of Corrections (DOC), late 1930's until 1965.

The use of trichloroethene by the College has reportedly been limited to small quantities in the chemistry labs, machine shop, and the office for packing labels. A 55 gallon drum was found at the machine shop labeled trichloroethene. It contained used motor oil and was reportedly kept for this purpose for 10 - 15 years. The DOT indicated they used kerosene and gasoline to clean parts and did not use chlorinated solvents. Clifton Precision Products has stated they did not use trichloroethene during the nine months they occupied the site. The DOC originally installed a septic tank with an unlined sand filter bed that discharges into McComb Branch (Plate 1). It is permitted by the Division (NPDES Permit No. NC0035394).

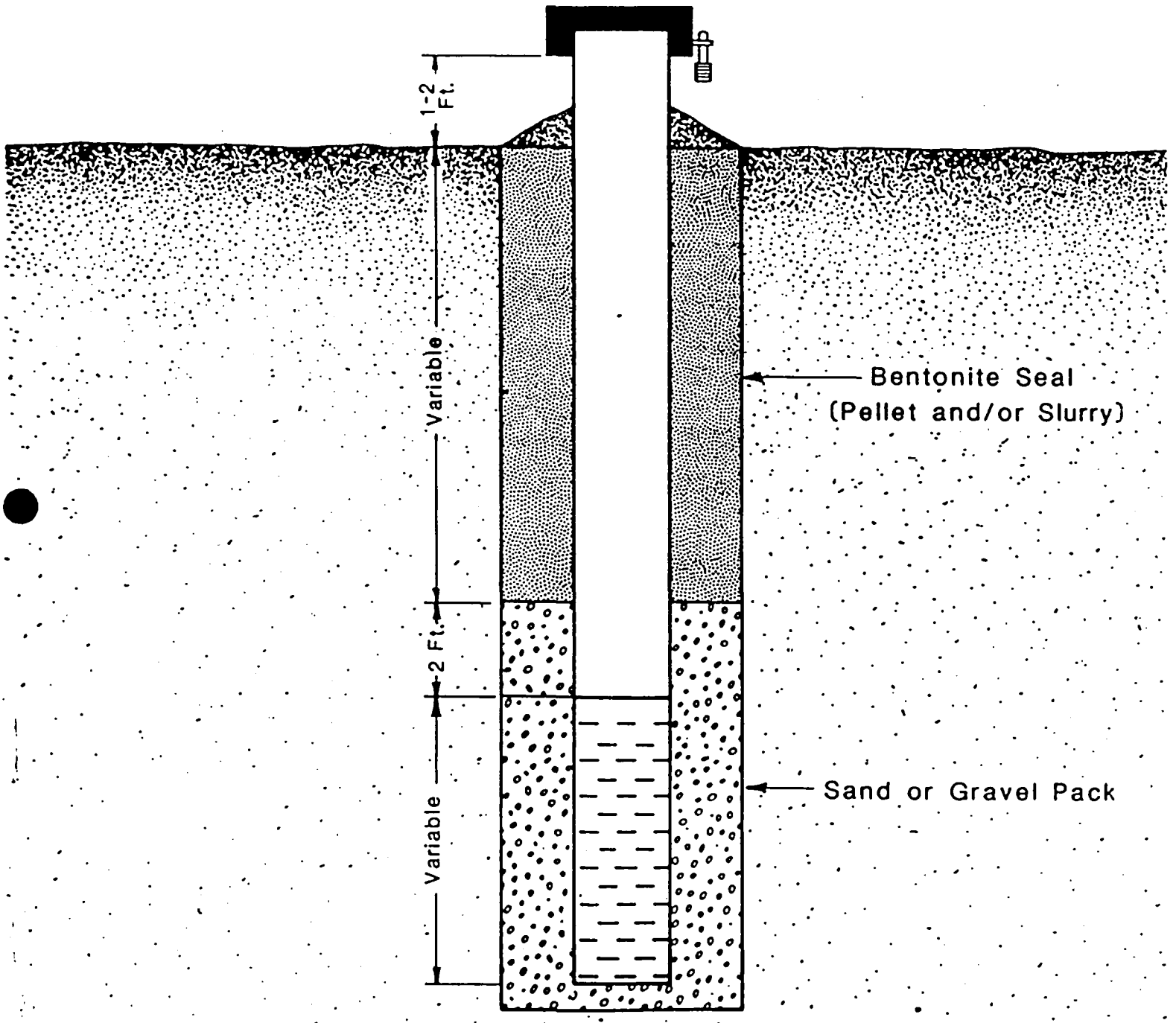
FIELD DRILLING OPERATIONS

On April 28, 1987, the Division began monitor well installations on site. The operation was completed on May 26, 1987. The wells were bored using a CME 55 truck-mounted rotary drill rig with 6 1/4-inch continuous flight hollow-stem augers. Auger stems and drill bits were steam cleaned before each use to prevent cross contamination between boreholes. Split spoon samples were obtained every five feet from each of the deep borings. The soil was checked immediately for volatile organics with an HNU portable photo-ionization analyzer and then described in accordance with a modified version of the Unified Soil Classification System. Split spoon samples were not taken on any of the shallow borings because the corresponding deep borings were less than ten feet away.

MONITOR WELL CONSTRUCTION

A temporary monitor well was installed at each borehole. Eleven of the twenty wells were constructed using Schedule 40 PVC casing and a ten-foot Schedule 40 PVC 0.020 inch slotted screen. The remaining nine wells were installed with 2 inch diameter Schedule 10 type 304 stainless steel casing with a ten foot section of 0.010 inch slotted stainless steel screen of the same type.

All wells were completed in the same manner. A typical temporary monitor well is shown in Figure 2. Construction details for each well are listed in Table 1. The annular space from the bottom of the well to 1 - 3 feet above the top of the screen was filled with clean, medium to coarse sand. Several feet of bentonite pellets were placed on top of the sand pack, and the remaining annular space, if any, was filled to land surface with uncontaminated soil cuttings.



Monitoring Well for Groundwater Contamination Investigations

(not for use as permanent monitor well at remedial action or waste disposal sites)

FIGURE 2

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TABLE 1 - WELL CONSTRUCTION DATA

Monitor Well No.	Quadrangle No.	Total Depth (ft)	Casing Depth (ft)	Screened Interval (ft)	Relative Water Table Elevation (ft)
1d	T103h10	55	45	45 - 55	985.60
2d	T103h7	30	20	20 - 30	977.16
3d	T103g6	51.5	41	41 - 51	977.91
3s	T103g7	20	10	10 - 20	978.70
4d	T103d10	94	84	84 - 94	968.48
4s	T103d11	20.5	9	9 - 19	969.96
5d	T103g8	78	68	68 - 78	971.35
5s	T103g9	16	6	6 - 16	970.76
6d	T103h9	36.5	31.5	31.5 - 36.5	976.53
6s	T103h8	29	19	19 - 29	976.77
7d	T103d12	40	30	30 - 40	971.11
8d	T103d8	55	45	45 - 55	961.47
8s	T103d9	13.5	3.5	3.5 - 13.5	962.42
9d	T103c34	71	61	61 - 71	981.61
9s	T103c36	29	19	19 - 29	982.40
10d	T103d13	55	45	45 - 55	957.72
10s	T103d15	39	28	28 - 38	957.47
11d	T103c33	86.5	76	76 - 86	973.45
11s	T103c35	29	19	19 - 29	984.17
12d	T103d14	36.5	26.5	26.5 - 36.5	959.73

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The stainless steel wells were protected from unauthorized entry by a watertight stainless steel locking cap. A steel outer casing with attached locking cap was grouted with bentonite over the PVC wells.

GENERAL GEOLOGY

The Peachtree area (Figure 3) of Cherokee County is underlain by the Murphy Belt which consists of the Mineral Bluff formation, Brasstown formation, Murphy Marble, Andrews formation, Nottely quartzite, Tusquittee quartzite, and Nantahala formation. The specific area of Tri-County Community College is underlain by the Mineral Bluff formation which is described in the Geologic Map of North Carolina (1985) as a quartz-chlorite-sericite schist and phyllite with thin quartzite layers and minor interbedded graphitic schist, garnet-mica schist, staurolite schist, cross-biotite schist, and dark slate.

The Mineral Bluff formation weathers into a reddish-orange to multi-colored clayey silt with a relatively low permeability. The saprolite is over 100 feet deep in some areas with a gradational contact at depth between the saprolite and bedrock. Alluvial deposits are also found on site but are relatively minor in extent.

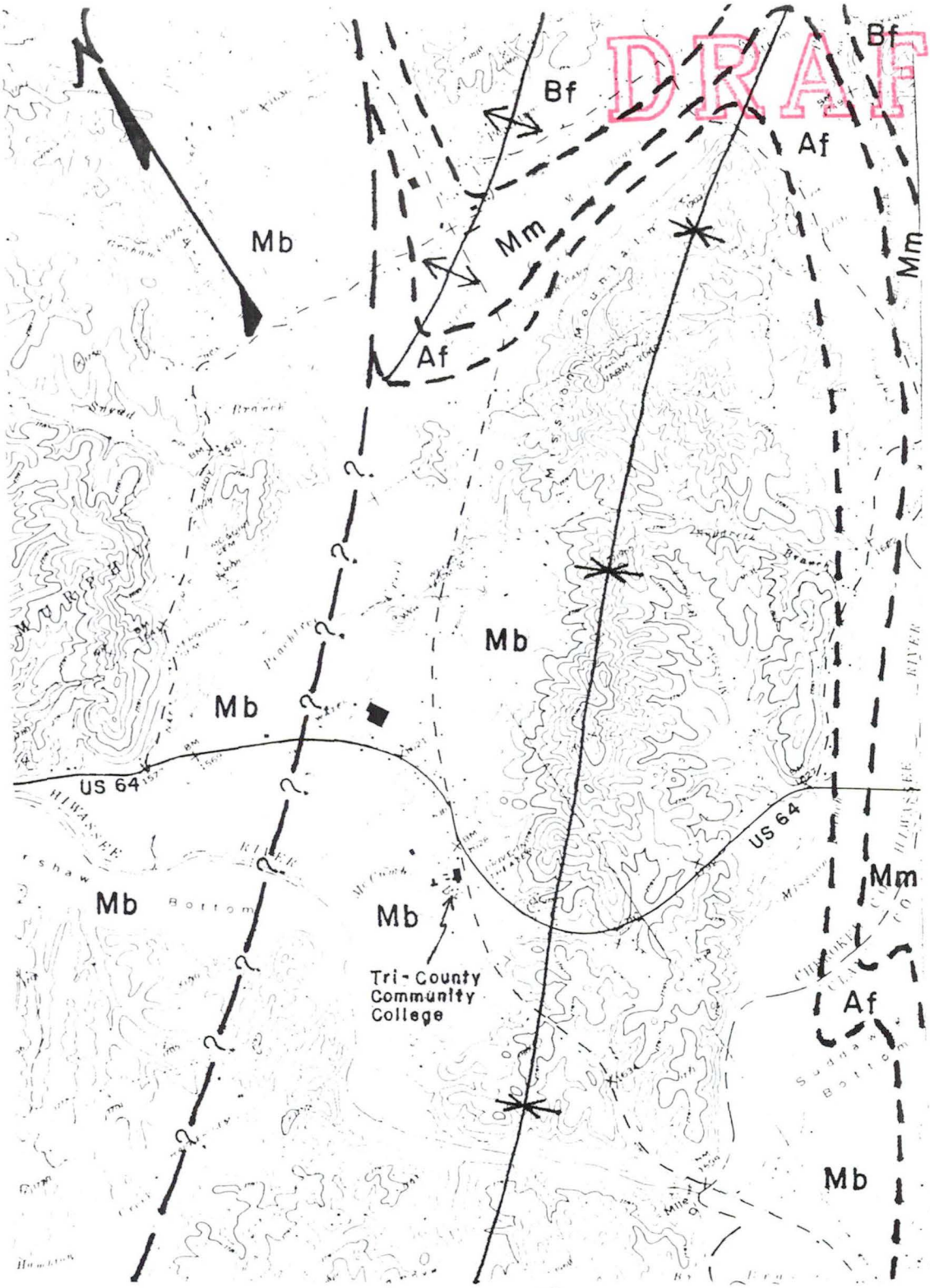
The site is bounded by a northeast striking syncline to the east and south and by a northeast striking anticline to the north. A thrust fault, trending to the northeast is reportedly located just northwest of the site (Figure 3). As a result of the nearby thrust fault, intensive fracturing and possible secondary faulting of the Mineral Bluff formation could be expected on site. The relatively high yields of many bedrock wells in the area seem to support this conclusion.

The bedding of the Mineral Bluff formation dips very steeply to the southeast. Some borings on the site indicated bedding approaching dips of 90 degrees.

SUBSURFACE LITHOLOGY

The thickness of the saprolite on the site based on auger refusal in the boreholes ranged from 30 to 94 feet with a median depth of 55 feet. Plates 2 and 3 show two interpretations of relative bedrock elevation contours on site.

In Plate 2 (Interpretation "A"), the dashed contours express equipotential lines between monitor wells 4d and 5d and monitor wells 2d, 6d, and 7d. Utilization of this raw data indicates a short trough or depression in the bedrock topography from monitor well 5d toward monitor wells 6d and 7d.



LEGEND

Mb	MINERAL BLUFF FORMATION	APPROXIMATE FAULT TRACE
Af	ANDREWS FORMATION	PROBABLE FAULT TRACE
Mm	MURPHY MARBLE	APPROXIMATE GEOLOGIC CONTACT
Bf	BRASSTOWN FORMATION	SYNCLINE
		ANTICLINE

1/2 0 1/2 1 MILE

FIGURE 3 GEOLOGIC MAP MODIFIED FROM *GEOLOGIC MAP OF NORTH CAROLINA* (1985) & FOREST (1975, unpubl.)

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In Plate 3 (Interpretation "B"), the dashed contours represent an abrupt decrease in implied bedrock elevation near wells 4d and 5d. This is a more acceptable interpretation presenting a ledge-like structure on the bedrock topography. This interpretation allows for more symmetrical bedrock contours, shows lineation with a stream on the site and is more like a structure associated with intensive fracturing or faulting. If this structure is a result of fracturing or faulting, it may be a secondary structure related to the major thrust fault west of the site (Figure 3).

The material encountered in the well borings (Figures 4 - 8) was primarily a steeply dipping, reddish-orange to multi-colored micaceous clayey silt, commonly intersected by manganese oxide crusts. The saprolite alternated with partially weathered rock throughout. At monitor well sites 9d and 11d, the saprolite was overlain by a pebbly, micaceous, alluvial silt with a basal gravelly sand to a depth of approximately 15 feet.

HYDROLOGY

Surface Water

There are three flowing streams on site: McComb Branch draining to the northwest and two unnamed tributaries of McComb Branch. McComb Branch flows into the Hiwassee River approximately 1/2 mile from the College buildings. The sand filter bed discharges into McComb Branch.

Groundwater

There are two aquifer systems on site that are a part of the Great Smoky Mountain Hydrogeologic Unit: the water-table aquifer in the saprolite, and the artesian aquifer in the fractured and jointed bedrock. Both aquifers are utilized and suitable for water-supply use in the area. Wells of both types, bored (water-table) wells and drilled (artesian) wells are used for water supply purposes in the immediate vicinity of Tri-County Community College.

The water-table aquifer in the area of investigation ranged from land surface at the streams to 3.32 to 38.02 feet below the land surface on June 3, 1987, in the 20 monitor wells on site. The composition of the water-bearing zones is relatively consistent across the site as shown in the lithologic logs illustrated in Figures 4 - 8. The direction of groundwater movement across the site is to the west based upon the water-table contour map (Plate 4) and flow direction shown in Plate 5. One water-table bored well on site had served for water supply purposes. It is represented in Plates 1 - 6 as "contaminated bored well".

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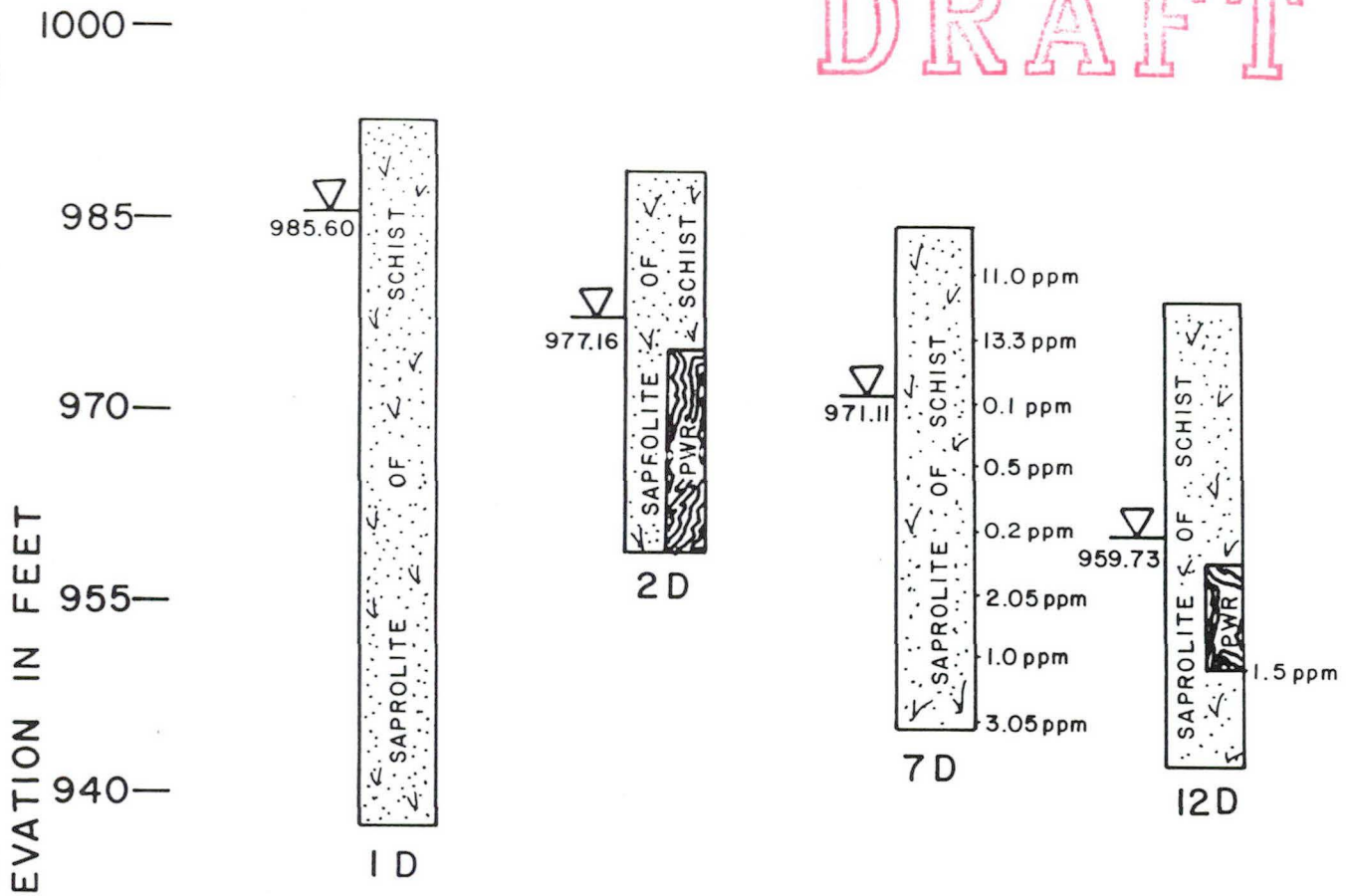

LEGEND

MICACEOUS SILT

MICACEOUS SILTY SAND

SAND

PARTIALLY WEATHERED ROCK (PWR)

977.91 — WATER LEVELS TAKEN ON JUNE 3, 1987, CORRECTED TO LAND SURFACE DATUM (LSD)

1.8 ppm — CONCENTRATIONS OF VOLATILE ORGANICS IN PARTS PER MILLION, BASED UPON HNU METER READINGS ON SPLIT SPOON SAMPLES

HNU = 0.0 ppm EXCEPT WHERE NOTED

FIGURE 4

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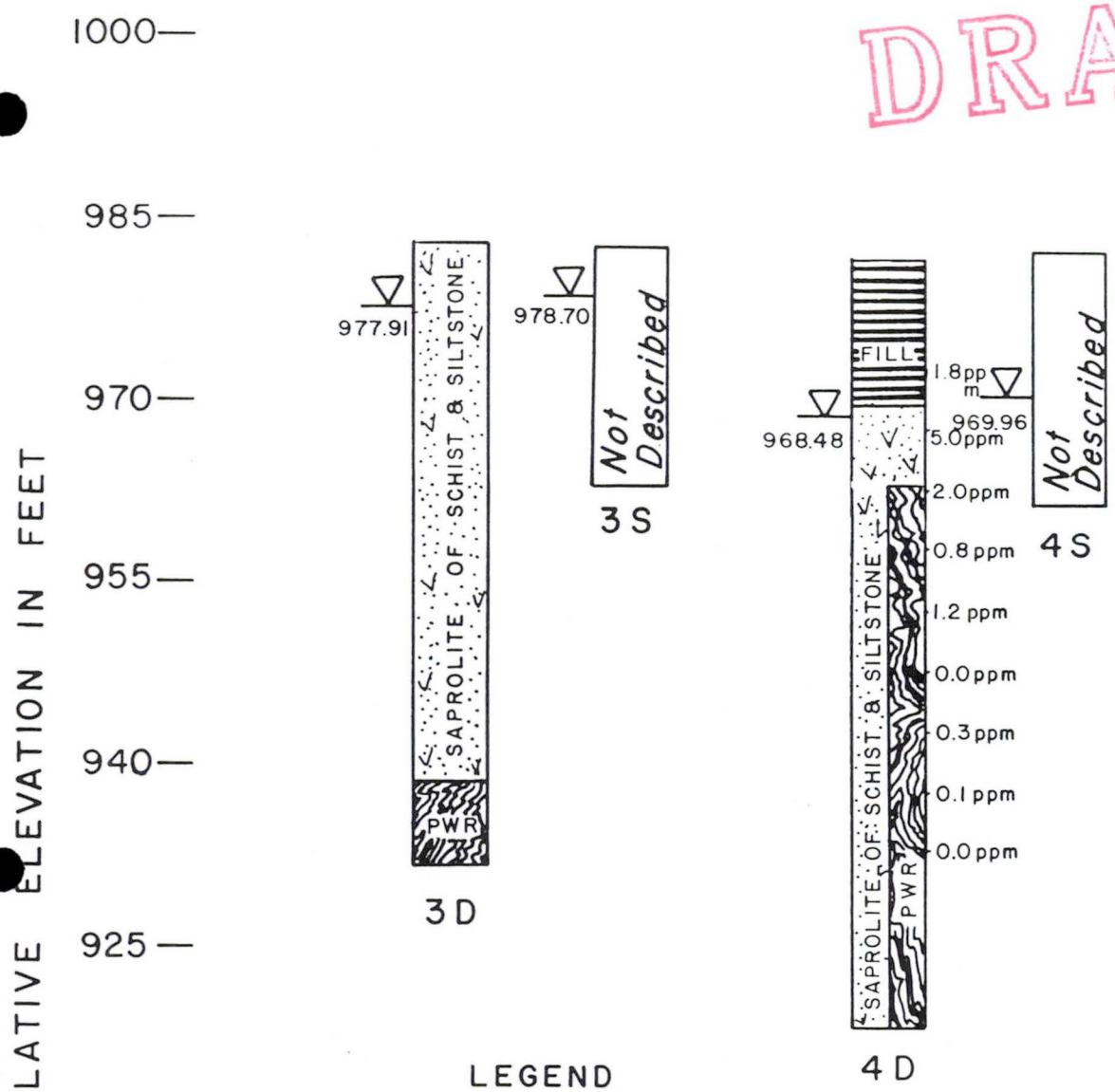

LEGEND

MICACEOUS SILT

MICACEOUS SILTY SAND

SAND

PARTIALLY WEATHERED ROCK (PWR)

FILL

977.91 WATER LEVELS TAKEN ON JUNE 3, 1987, CORRECTED TO LAND SURFACE DATUM (LSD)

1.8 ppm CONCENTRATIONS OF VOLATILE ORGANICS IN PARTS PER MILLION, BASED UPON HNU METER READINGS ON SPLIT SPOON SAMPLES

HNU = 0.0 ppm EXCEPT WHERE NOTED

FIGURE 5

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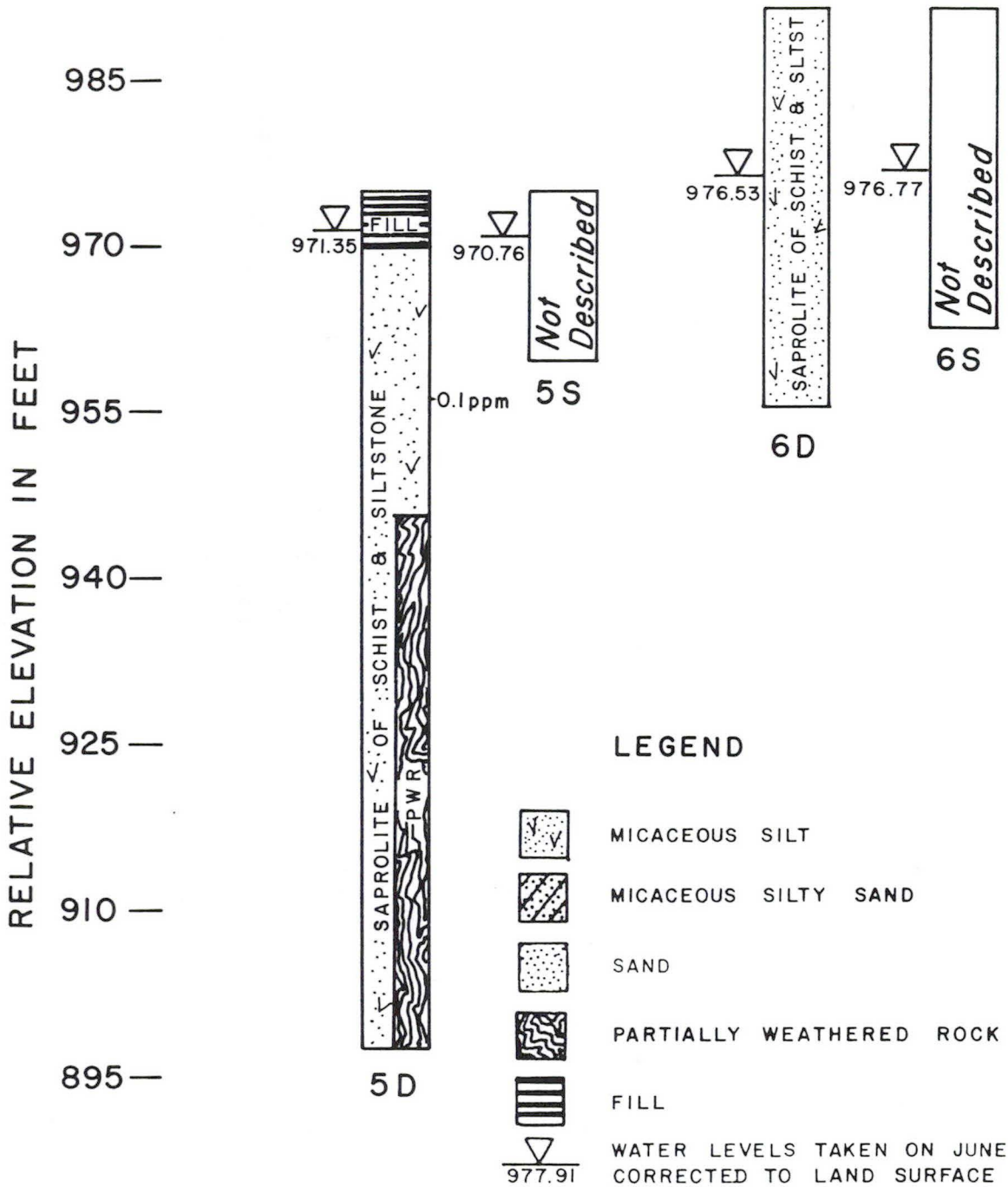

LEGEND

MICACEOUS SILT

MICACEOUS SILTY SAND

SAND

PARTIALLY WEATHERED ROCK (PWR)

FILL

977.91 WATER LEVELS TAKEN ON JUNE 3, 1987, CORRECTED TO LAND SURFACE DATUM (LSD)

1.8 ppm CONCENTRATIONS OF VOLATILE ORGANICS IN PARTS PER MILLION, BASED UPON HNU METER READINGS ON SPLIT SPOON SAMPLES

HNU = 0.0 ppm EXCEPT WHERE NOTED

FIGURE 6

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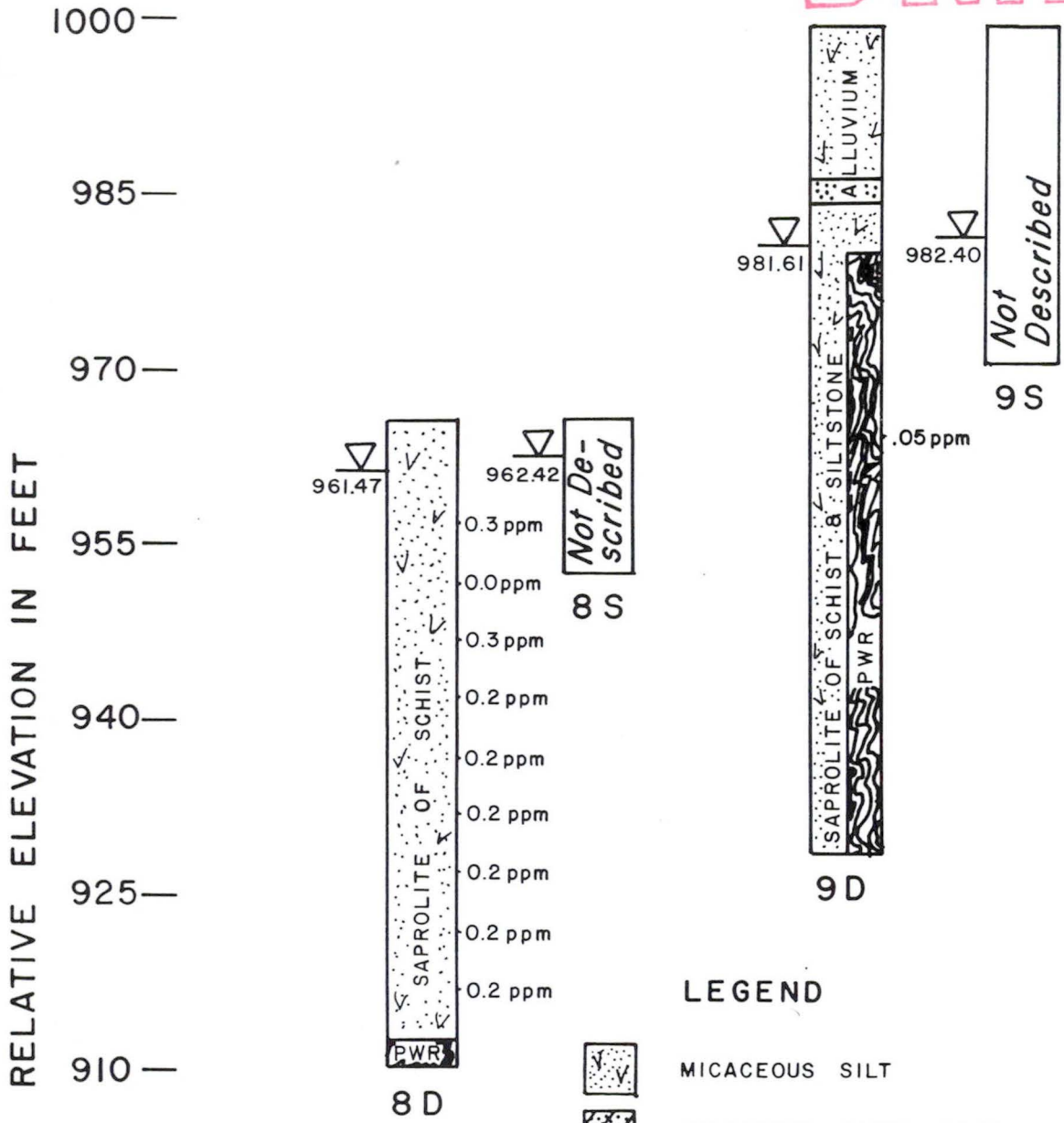

LEGEND

MICACEOUS SILT

MICACEOUS SILTY SAND

SAND

PARTIALLY WEATHERED ROCK (PWR)

977.91 WATER LEVELS TAKEN ON JUNE 3, 1987, CORRECTED TO LAND SURFACE DATUM (LSD)

1.8 ppm CONCENTRATIONS OF VOLATILE ORGANICS IN PARTS PER MILLION, BASED UPON HNU METER READINGS ON SPLIT SPOON SAMPLES

HNU = 0.0 ppm EXCEPT WHERE NOTED

FIGURE 7

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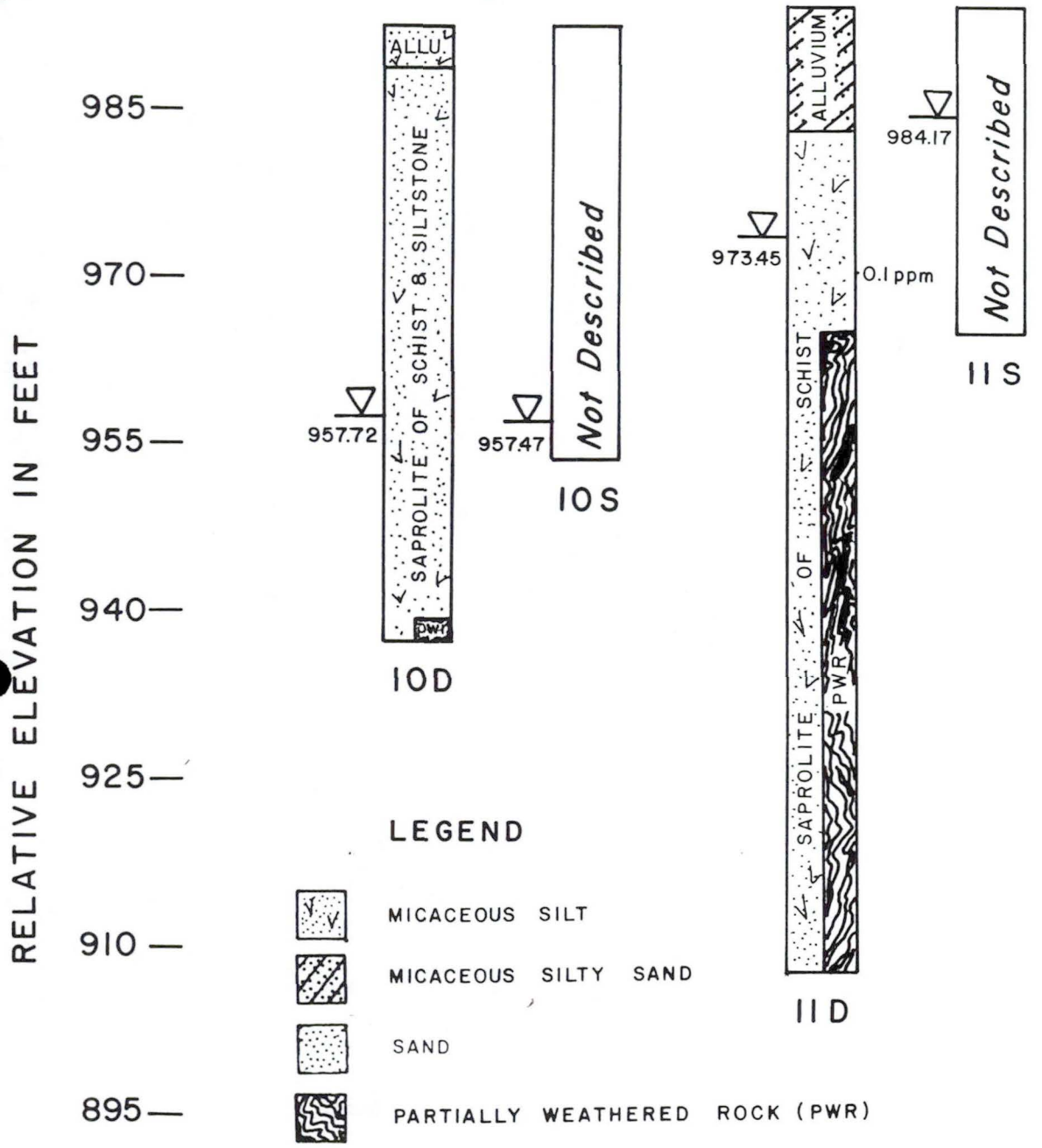

FIGURE 8

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The artesian aquifer on site is a fractured, jointed and probably faulted quartz-chlorite-sericite schist with minor interbeds of other schists. The aquifer receives its recharge directly from the overlying water-table aquifer in the saprolite by way of groundwater infiltration into fractures, joints, and possibly faults. Only one well on site (shown in Plates 1 - 6 as "contaminated deep well") was constructed in the artesian aquifer system. It is more than 400 feet deep and reportedly has a high yield. It is currently being used on site for all purposes except drinking. The presence of trichloroethene in this well indicates that the contaminant has reached the top of bedrock and its fracture, fault, and joint system.

GROUNDWATER CONTAMINATION

The contaminated deep well in the artesian aquifer system that is currently being used on a limited basis by the College was sampled on January 19, 1987, by the Division and was found to contain trichloroethene (300 ug/l) and tetrachloroethene (0.06 ug/l). A subsequent sample by DHR on February 11, 1987, also indicated trichloroethene (542 ug/l). On March 4, 1987, a bored (water-table) well also being used by the College was sampled by the Division and found to contain trichloroethene (14 ug/l) and tetrachloroethene (0.09 ug/l).

Table 2 exhibits the result of volatile organic analyses from the monitor wells. These analyses and previous analyses from the two water-supply wells indicate violations of NCAC, Title 15, Subchapter 2L, by the presence of volatile organic compounds identified in Table 2 and in the previous paragraph. The source of the contaminant of primary concern, trichloroethene, appears to be in the southern end of the site as evidenced in Plate 6.

The acetone found in monitor well 11d and the methyl isobutyl ketone in well 9s are believed to be the result of monitor well contamination during the sampling process. The presence of unknown or unidentified volatile organics as detected in some of the monitor wells is a common problem associated with volatile organic analyses at most sites.

CONCLUSIONS

Based upon groundwater movement in the water table shown in Plate 4 and 5, it is clear that the contamination of the water table on site by trichloroethene did not originate off site. Also, the trichloroethene apparently did not migrate onto the site by way of fractures, faults, or joints in the artesian aquifer from another site of trichloroethene contamination such as Clifton Precision Products approximately 2 1/4 miles to the northeast or nearby Emerson Electric Company for the following reasons:

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TABLE 2 - VOLATILE ORGANIC ANALYSES (VOA)

Monitor Well No.	Quadrangle No.	Laboratory No.	Date Sampled	VOA's Detected	Concentration ug/l
1d	T103h10	7G933	7/15/87	Not detected	-
2d	T103h7	7G702	5/12/87	Trichloroethene	2.2
				1 unidentified compound by GC/Hall	-
3d	T103g6	7G700	5/12/87	Not detected	-
3s	T103g7	7G701	5/12/87	Not detected	-
4d	T103d10	7G666	5/5/87	Trichloroethene	99
				1 unidentified compound by GC/Hall	-
4s	T103d11	7G664	5/5/87	Trichloroethene	13
				1,1,1-Trichloroethane	1.1
				3 unidentified compounds by GC/Hall	-
5d	T103g8	7G934	7/15/87	Trichloroethene	130
				1,1,1-Trichloroethane	5.4
				2 unidentified compounds by GC/Hall	-
5s	T103g9	7G935	7/15/87	Trichloroethene	1000
				Tetrachloroethene	0.22
				1,1,1-Trichloroethane	6.1
				1,1-Dichloroethane	0.08
				4 unidentified compounds by GC/Hall	-
6d	T103h9	7G936	7/15/87	Trichloroethene	80
6s	T103h8	7G703	5/12/87	Trichloroethene	5.6
				1 unidentified compound by GC/Hall	-

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TABLE 2 - VOLATILE ORGANIC ANALYSES (VOA) - Continued

Monitor Well No.	Quadrangle No.	Laboratory No.	Date Sampled	VOA's Detected	Concentration ug/1
7d	T103d12	7G937	7/15/87	Trichloroethene	7.0
8d	T103d8	7G638	4/29/87	Trichloroethene	1.7
8s	T103d9	7G639	4/29/87	Trichloroethene	0.11
				2 unidentified compounds by GC/Hall	-
9d	T103c34	7G939	7/15/87	Not detected	-
9s	T103c36	7G938	7/15/87	Methyl Isobutyl Ketone	33
				1 unidentified compound by GC/PID	-
10d	T103d13	7G940	7/15/87	Not detected	-
10s	T103d15	7G941	7/15/87	Not detected	-
11d	T103c33	7G942	7/15/87	Acetone	210
				Benzene	4.9
				1 unidentified compound by Hall/PID.	-
11s	T103c35	7G751	5/26/87	Not detected	-
12d	T103d14	7G943	7/15/87	Not detected	-

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1. If the source of movement of trichloroethene contamination is through the thrust fault and adjacent fractures and faults from Clifton Precision Products to Tri-County Community College, it would be reasonable to expect high levels of trichloroethene to be found in drilled (artesian) wells between the two sites. In extensive groundwater sampling off site of drilled and bored wells in the Peachtree area between these two sites, high levels of contamination by trichloroethene were not found.

2. The primary contaminants found at Emerson Electric Company and Murphy Medical Center were 1,1,1-trichloroethane and 1,1-dichloroethane, not trichloroethene.

Another possible source of contamination to be considered is the unlined waste treatment sand filter bed that discharges into McComb Branch. The highest levels of trichloroethene contamination in the water table were detected below it in monitor wells 5d and 5s (Table 2). However, the levels found in monitor wells 5d and 5s probably represent a buildup of the contaminant in the water table below the sand filter bed as a result of years of infiltration by contaminated water from the water-supply well as it passes through the system. In a sand filter bed the rate of movement of waste water is relatively slow allowing the heavier than water, relatively insoluble trichloroethene to move through the bottom of the unlined bed and ultimately to the underlying water table aquifer. Also, the highest contamination level found below the filter beds (1000 ug/l) is not sufficiently high to be viewed as the source of contamination for the water-supply well especially considering the small areal extent of the contamination at the sand filter beds.

The use of the unlined sand filter bed on site for waste water treatment has retarded incidental cleanup of the site by pumping of the water-supply well since most of the trichloroethene was probably reintroduced to the groundwaters by infiltration through the bottom of the filter beds.

The contamination on site probably is the result of spillage or dumping of small quantities of trichloroethene in the contaminated area shown in Plate 6 by one or more of the owners of the property. The trichloroethene, being heavier and relatively insoluble in water, migrated to and through the water-table to the top of bedrock. At the top of bedrock, the nearly vertical bedding planes allowed the contaminant to enter directly the fracture system of the artesian aquifer. Since the contaminant could easily enter the bedrock through the bedding planes, its areal contamination of the water-table aquifer would be minimal. Under such conditions the identification of the specific sites of contamination would be extremely difficult unless the water-table monitor well was bored at or very near the site of the spill. As an example, 0.34 gallons of trichlorethene reaching the water-table could contaminate 1,000,000 gallons of groundwater to a 500 ug/l concentration.

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RECOMMENDATION

The following steps should be undertaken on site to minimize further impacts, determine extent of the problem, and effect remediation:

1. The practice of waste water disposal on site through an unlined sand filter bed should be reviewed. A method of waste water treatment to avoid infiltration into the ground or treatment through a regional waste water treatment system should be considered. This would minimize contaminant migration back to the groundwater after it is pumped from the artesian aquifer through the water-supply well.

2. A minimum of one or two monitor wells should be constructed across McComb Branch from monitor wells 5d and 5s to determine if contamination has moved off site across the drainage divide.

3. A proposal for groundwater remediation on site should be submitted.

MONITOR WELL CONSTRUCTION RECORDS

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T-103, H-10 Serial No. CE2395
Lat. 35-04-01 Long. 83-52-58 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR D.E.M. Groundwater
DRILLER REGISTRATION NUMBER 1000

Field ID # 1-0 Incident No. 3371
STATE WELL CONSTRUCTION PERMIT NUMBER: 1 deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy County: Cherokee
off US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of N.C. (Tri-County Community College)
ADDRESS Groundwater Sec.
(Street or Route No.)
Raleigh N.C. 27611
City or Town State Zip Code

3. DATE DRILLED 5-12-87 USE OF WELL Obs.
4. TOTAL DEPTH 55' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL 8.4 FT. ☐ above ☐ below TOP OF CASING,
TOP OF CASING IS 1.38 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST Bailing
8. WATER ZONES (depth): 45'-55'
9. CHLORINATION: Type N/A Amount N/A

DRILLING LOG

Depth From	Depth To	Formation Description
		see attached Driller log.

RECEIVED
MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	45	2	Sch 10	SS Pipe

11. ~~GROUT~~ Bentonite

	Depth From	Depth To	Material	Method
	0	42	Bentonite 3/4" pounded w/ water added	

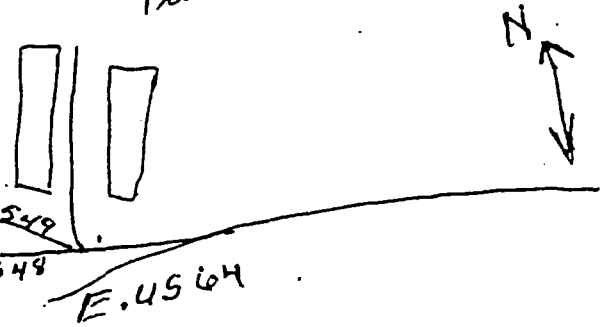
12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	45	55	2 in.	.010 in.	SS Pipe
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ sand PACK:

	Depth From	Depth To	Size	Material
	42	55	fine/med	sand

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



14. REMARKS: Temp. will be pulled out, hole cemented up.

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

Billy R. Cooper 5-12-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T103b-7 Serial No. Ce 2379
Lat. 35 03 58 Long. 83 58 00 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

Field ID Spring b2e
Incident # 3371

DRILLING CONTRACTOR DEM Groundwater
DRILLER REGISTRATION NUMBER 1000
STATE WELL CONSTRUCTION PERMIT NUMBER: 2deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree - Murphy
SR 1549 US 64 South of murphy
(Road, Community, or Subdivision and Lot No.)
County: Cherokee

2. OWNER State of NC TRI Co Community College
ADDRESS Groundwater (Street or Route No.)
Raleigh
City or Town State Zip Code

3. DATE DRILLED 5-6-87 USE OF WELL Temp obs
4. TOTAL DEPTH 30' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 12.67 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 1.00 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST Bail
8. WATER ZONES (depth): 23 - 30

9. CHLORINATION: Type NA Amount NA

10. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	20	2	Sch 10	Stainless Steel

11. ~~GROUT~~ Bentonite

	Depth From	To	Material	Method
	0	6	Bentonite Grade 3/8	

12. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	20	30	2 in.	.010 in.	Stainless Steel
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ Sand PACK:

	Depth From	To	Size	Material
	6	30	med	

14. REMARKS: Located in old DOT yard beside Body shop

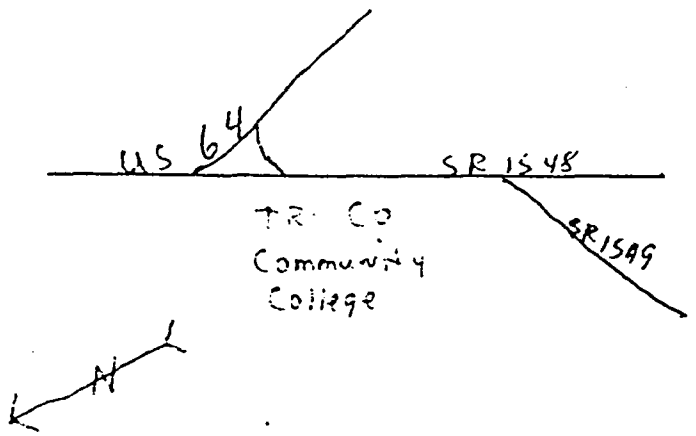
DRILLING LOG

Depth From	To	Formation Description

RECEIVED
MAY 22 1987
Groundwater Section
Asheville Regional Office

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 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Timothy H. 5-7-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T1029G Serial No. CE 2378
Lat. 35 03 57 Long. 83 58 04 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

Field ID Dorny b3d
Incident # 2378

DRILLING CONTRACTOR DEM Groundwater
DRILLER REGISTRATION NUMBER 1000
STATE WELL CONSTRUCTION PERMIT NUMBER: 3deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree - Murphy
SR 1549 US 64 South of murphy
(Road, Community, or Subdivision and Lot No.)
County: Cherokee

2. OWNER State of NC TRI CO Community College
ADDRESS Groundwater Section
(Street or Route No.)
Raleigh
City or Town State Zip Code

3. DATE DRILLED 5-5&6-87 USE OF WELL Temp test
4. TOTAL DEPTH 51'6" CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 5.94 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS .79 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST Bail
8. WATER ZONES (depth): 14 – 51'6"
9. CHLORINATION: Type NA Amount NA

Depth From	Depth To	DRILLING LOG Formation Description

RECEIVED
MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	41	2	sch. 10	Stainless Steel

11. ~~GROUT~~ Bentonite

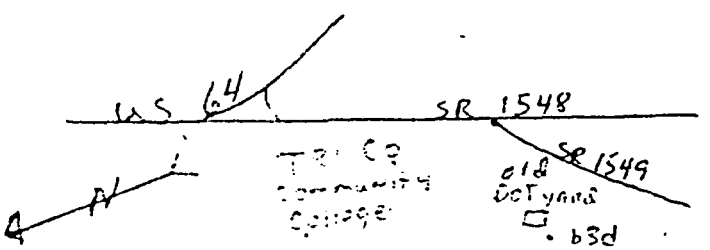
	Depth From	Depth To	Material	Method
	0	32	Bentonite Grade 3/8"	Poured w/ water added

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	41	51	2 in.	.010 in.	Stainless Steel
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ SAND PACK:

	Depth From	Depth To	Size	Material
	32	51		med grade



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

14. REMARKS: well located in old DOT yard at back of yard

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

Tommy Hill 5-7-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. J 10397 Serial No. Ce 2380
Lat. 35 03 57 Long. 83 58 04 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

Field ID boring # B35
incident # 3371

DRILLING CONTRACTOR DEM Groundwater
DRILLER REGISTRATION NUMBER 1000
STATE WELL CONSTRUCTION PERMIT NUMBER: 3 shallow

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree-Murphy County: Cherokee
SR 1549 US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of NC TRI Co Community College
ADDRESS Groundwater (Street or Route No.)
Raleigh (City or Town) (State) (Zip Code)

3. DATE DRILLED 5-6-87 USE OF WELL. Temp obs
4. TOTAL DEPTH 20 CUTTINGS COLLECTED ☐ Yes ☐ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL 5.65 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 1.44 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST Bail
8. WATER ZONES (depth): 16'-6" 20'
9. CHLORINATION: Type NA Amount NA

Depth From	Depth To	DRILLING LOG Formation Description

RECEIVED
MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	10	2	sch 40	PVC

11. ~~GROUT~~: Bentonite

	Depth From	Depth To	Material	Method
	0	9	Bentonite GRADE 3/8"	Poured w/water added

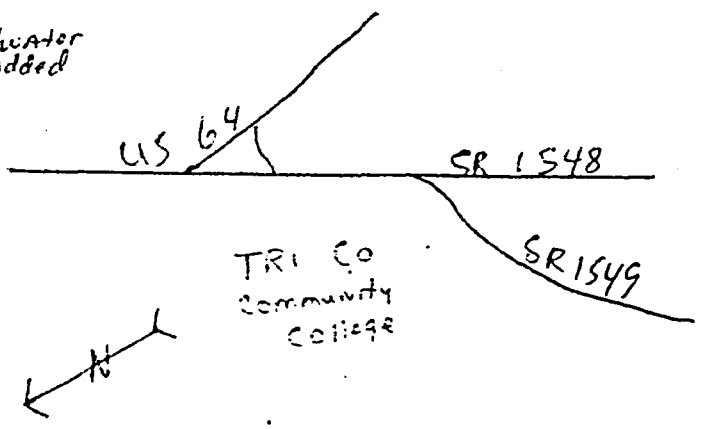
12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	10	20	2 in.	.020 in.	PVC
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ SAND PACK:

	Depth From	Depth To	Size	Material
	9	20	med	

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



14. REMARKS: Well Located in old DOT yard Back of Lot

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

Timothy Hill 5-7-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T103d-10 Serial No. CE2375
Lat. 35-03-59 Long. 83-58-02 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR OEM Groundwater
DRILLER REGISTRATION NUMBER 1600

Incident #3371 Field ID# 4-D
STATE WELL CONSTRUCTION PERMIT NUMBER: 4deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy County: Cherokee
off US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of N.C. Tri County Community College
ADDRESS Groundwater Sec.
(Street or Route No.)
Raleigh N.C. 27611
City or Town State Zip Code

3. DATE DRILLED 4-29-87 USE OF WELL Obs
4. TOTAL DEPTH 94' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 14.18 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 1.02 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST Bailing
8. WATER ZONES (depth): 84'-94'
9. CHLORINATION: Type N/A Amount N/A

Depth From	Depth To	DRILLING LOG Formation Description
		See attached Driller's Log.

RECEIVED
MAY 22 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	84	2	Sch. 10	SSP

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

11. ~~GROUT~~: Bentonite

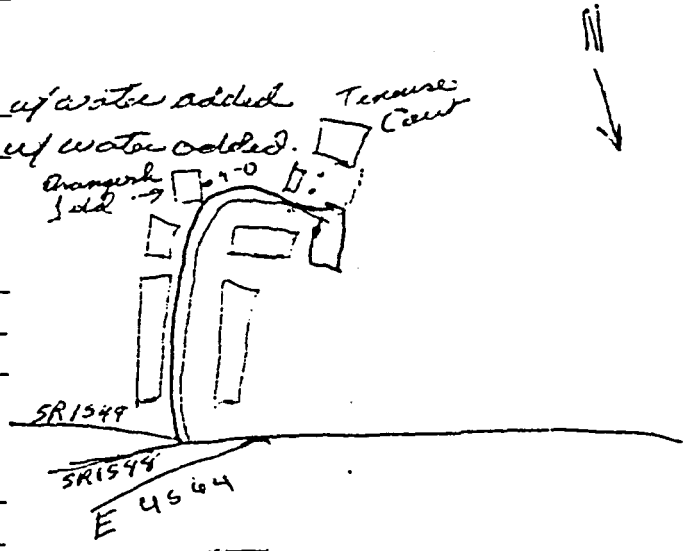
	Depth From	Depth To	Material	Method
	79'	82'	Bentonite 3/4"	Poured w/ water added
	0	2.5'	Bentonite 3/4"	Poured w/ water added.

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	84	94	2 in.	.010 in.	SSP
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ PACK: Sand

	Depth From	Depth To	Size	Material
	82	84	fine/Med	sand



14. REMARKS: Temp. will be pulled out, hole cemented up

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

Billy G. Cooper 4-29-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84

Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T 103 d11 Serial No. CE2378
Lat. 35-03-59 Long. 83-58-02 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR DEM Groundwater
DRILLER REGISTRATION NUMBER 1000
Field ID # H-5.
STATE WELL CONSTRUCTION PERMIT NUMBER: Provided #3371

Upstratton

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy N.C. County: Cherokee
off US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of N.C. (Tri-County Community College)
ADDRESS Groundwater Sec. (Street or Route No.)
Raleigh N.C. 27611
City or Town State Zip Code

3. DATE DRILLED 4-30-87 USE OF WELL obs
4. TOTAL DEPTH 20.5' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 13.50 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 1.50 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST Bailing
8. WATER ZONES (depth): 9'-19'
9. CHLORINATION: Type N/A Amount N/A

DRILLING LOG

Depth From	Depth To	Formation Description
		See attached Driller Log

RECEIVED
MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0	To 9 Ft.	2	sch 40	PVC
From	To Ft.			
From	To Ft.			

11. ~~GROUT~~: Bentonite

	Depth	Material	Method
From 0	To 7 Ft.	Bentonite 3/4"	poured w/ water added
From	To Ft.		

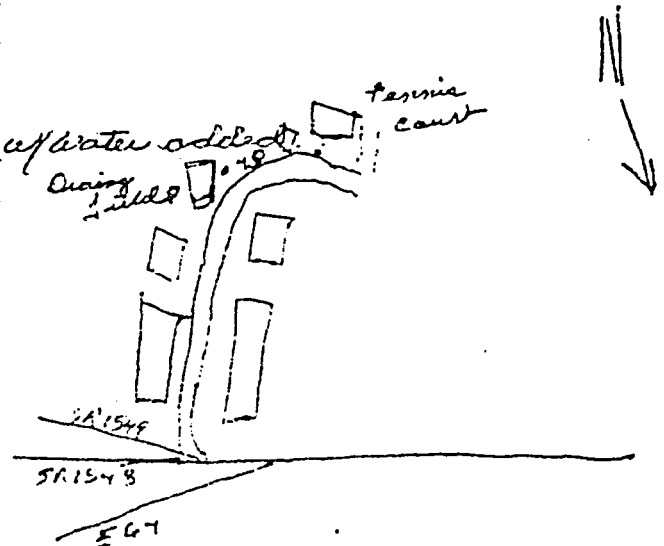
12. SCREEN:

	Depth	Diameter	Slot Size	Material
From 9	To 19 Ft.	2 in.	.020 in.	PVC
From	To Ft.	in.	in.	
From	To Ft.	in.	in.	

13. ~~GRAVEL~~ sand PACK:

	Depth	Size	Material
From 7	To 19 Ft.	fine/med.	sand
From	To Ft.		

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



14. REMARKS: Temp. will be pulled out, hole cemented up.

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

Billy L. Ayers 4-30-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T 1039 9 Serial No. Ce 2389
Lat. 350359 Long. 835802 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

Field ID boring # b55
incident # 3371

DRILLING CONTRACTOR
DRILLER REGISTRATION NUMBER 1000
STATE WELL CONSTRUCTION PERMIT NUMBER: 5 shallow

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peach tree Murphy County: Cherokee
SR 1549 US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of NC - TRI Co Community College
ADDRESS Groundwater (Street or Route No.)
Raleigh
City or Town State Zip Code

3. DATE DRILLED 5-21-87 USE OF WELL Temp test
4. TOTAL DEPTH 16 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 5.92 FT. ☐ above ☑ below TOP OF CASING,
TOP OF CASING IS 1.42 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST bail
8. WATER ZONES (depth): 12 - 16
9. CHLORINATION: Type NA Amount NA

Depth From	Depth To	DRILLING LOG Formation Description

RECEIVED
MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	6	2	sch 40	PVC

11. ~~GROUT~~: Bentonite

	Depth From	Depth To	Material	Method
	0	3	Bentonite ⅜ grade	Poured w/water added

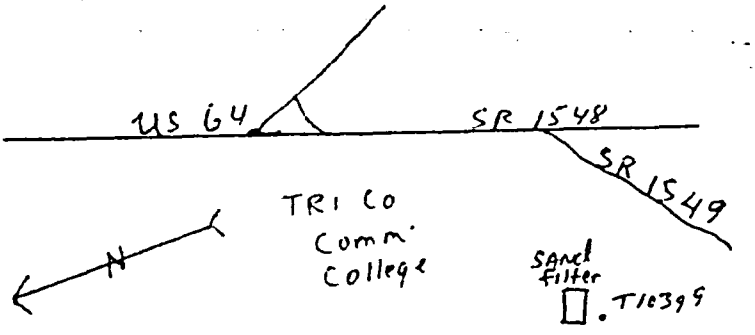
12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	6	16	2 in.	.020 in.	PVC
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ SAND PACK:

	Depth From	Depth To	Size	Material
	3	16	med	

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



14. REMARKS: well located behind sand filter

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

Timothy Hill 5-26-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T103 9 8 Serial No. Ce 2358
Lat. 35 03 59 Long. 83 58 02 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

Field ID boring # b50
incident # 3371

DRILLING CONTRACTOR
DRILLER REGISTRATION NUMBER 1000
STATE WELL CONSTRUCTION PERMIT NUMBER: 5 deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree murphy
SR 1549 US 64 south of murphy
(Road, Community, or Subdivision and Lot No.)
County: Cherokee

2. OWNER State of NC TRI Co Community College
ADDRESS Groundwater
(Street or Route No.)
Raleigh
City or Town State Zip Code

3. DATE DRILLED 5-20-87 USE OF WELL
4. TOTAL DEPTH 78 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 6.07 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.15 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST bail
8. WATER ZONES (depth): 9-78
9. CHLORINATION: Type NA Amount NA
10. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	68	2	sch 10	stainless steel

11. ~~GROUT~~ Bentonite

	Depth From	To	Material	Method
	35	38	Bentonite Grade 3/8"	Poured w/ water added
Cuttings	0 20	20 35		

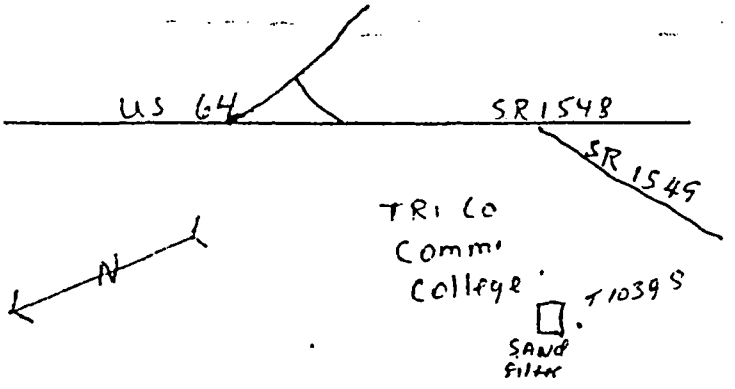
12. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	68	78	2 in.	.010 in.	Stainless steel
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ SAND PACK:

	Depth From	To	Size	Material
	38	48	med	

14. REMARKS: well Located behind sand filter



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)

RECEIVED
MAY 29 1987
Groundwater Section
Asheville Regional Office

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

Timothy W. Hall 5-26-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T153h-8 Serial No. Ce 2381
Lat. 35 03-59 Long. 83 58 00 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR DEM Groundwater
DRILLER REGISTRATION NUMBER 1000

Field ID Spring 66S
Incident # 3371
STATE WELL CONSTRUCTION PERMIT NUMBER: 6 shallow

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree - Murphy
SR 1549 US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)
County: Cherokee

2. OWNER State of NC TRI Co Community College
ADDRESS Groundwater
(Street or Route No.)
Raleigh
City or Town State Zip Code

3. DATE DRILLED 5-7-87 USE OF WELL Temp obs
4. TOTAL DEPTH 29 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 16.24 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 1.48 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST Bail
8. WATER ZONES (depth): 23' - 29'
9. CHLORINATION: Type NA Amount NA

Depth From	Depth To	DRILLING LOG Formation Description

RECEIVED
MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	19	2	Sch. 40	PVC

11. ~~GROUT~~: Bentonite

	Depth From	Depth To	Material	Method
	0	16	Bentonite Grade 3/8"	Poured w/ water Added

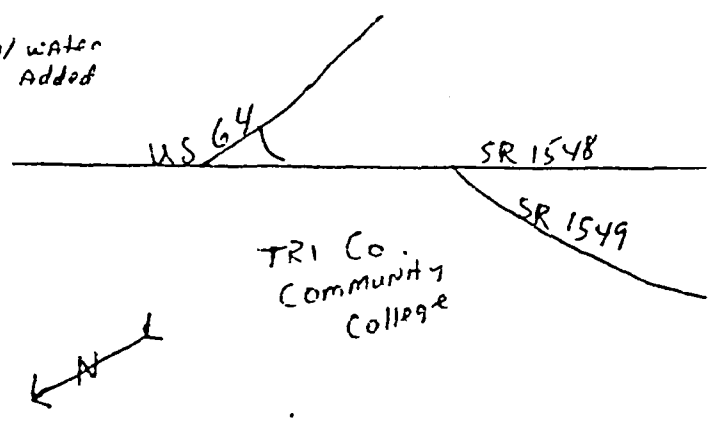
12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	19	20	2 in.	.020 in.	PVC
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ SAND PACK:

	Depth From	Depth To	Size	Material
	16	29	med	

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



14. REMARKS: Located Beside water tower + mechanic shop

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

Timothy Hill 5-7-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T-163, H-9 Serial No. CE 2342
Lat. 35-04-07 Long. 83-57-58 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR DEM Groundwater
DRILLER REGISTRATION NUMBER 1000

Field ID # 6-D Incident # 3371
STATE WELL CONSTRUCTION PERMIT NUMBER: 6 deep

. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy County: Cherokee
off US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

. OWNER State of N.C. (Tri-County Community College)
ADDRESS Groundwater Rec.
(Street or Route No.)
Raleigh N.C. 27611
City or Town State Zip Code

. DATE DRILLED 5-12-87 USE OF WELL obs.
. TOTAL DEPTH 36.5 CUTTINGS COLLECTED ☐ Yes ☒ No
. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
. STATIC WATER LEVEL: 16.58 FT. ☐ above ☐ below TOP OF CASING,
TOP OF CASING IS 1.31 FT. ABOVE LAND SURFACE.
. YIELD (gpm): N/A METHOD OF TEST Bailing
. WATER ZONES (depth): 31.5-36.5
. CHLORINATION: Type N/A Amount N/A

Depth From	Depth To	DRILLING LOG Formation Description
		See attached Driller log.

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MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	31.5	2	Sch 10	SS Pipe

. GROUT:

	Depth From	Depth To	Material	Method
	0	29	Bentonite grand 3/4" Pound w/ water added	Tri-County Community College

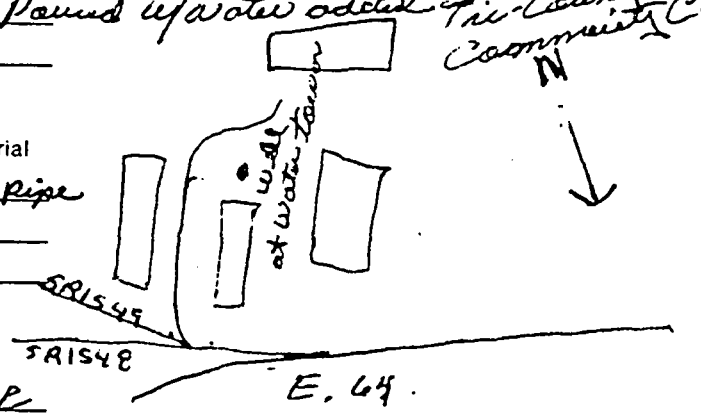
. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	31.5	36.5	2 in.	.010 in.	SS pipe

. GRAVEL PACK:

	Depth From	Depth To	Size	Material
	29'	36.5'	fine to med	sand

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



. REMARKS: will be pulled out, hole will be cemented up.

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

Billy R. Cagan 5-12-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Environmental Management and copy to well owner.

W-1 Revised 11/84

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T-103, D-12 Serial No. CE2383
Lat. 35-04-01 Long. 83-58-01 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR D.E.M. Groundwater
DRILLER REGISTRATION NUMBER 1000

Field ID # 7-0 Incident # 3371
STATE WELL CONSTRUCTION PERMIT NUMBER: 7 deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy, N.C.
off US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)
County: Cherokee

2. OWNER State of N.C. Tri-County Community College
ADDRESS Groundwater Sec.
(Street or Route No.)
Raleigh N.C. 27611
City or Town State Zip Code

3. DATE DRILLED 5-13-87 USE OF WELL Obs.
4. TOTAL DEPTH 40 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 14.55 FT. ☐ above ☐ below TOP OF CASING.
TOP OF CASING IS 1.26 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST Bailing
8. WATER ZONES (depth):
9. CHLORINATION: Type N/A Amount N/A

DRILLING LOG

Depth From	Depth To	Formation Description
		See attached Driller's log.

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MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From 0	To 30	Ft.	2	sch 10	SS pipe
From	To	Ft.			
From	To	Ft.			

11. ~~GROUT~~ Bentonite

	Depth		Material	Method
From 0	To 26	Ft.	Bentonite Pelleted 3/4"	poured w/water added
From	To	Ft.		

12. SCREEN:

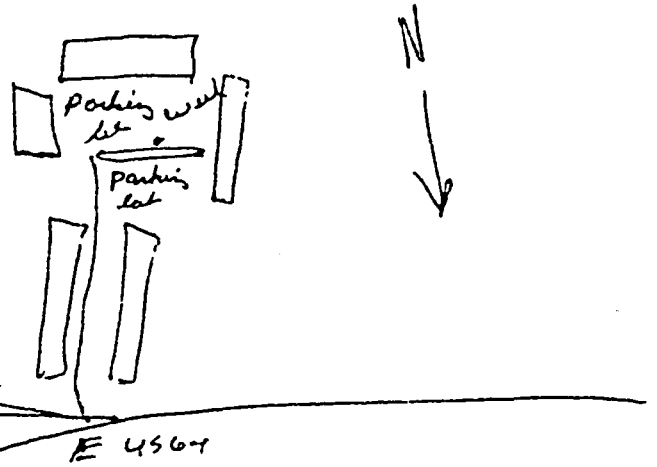
	Depth		Diameter	Slot Size	Material
From 30	To 40	Ft.	2 in.	.010 in.	SS pipe
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

13. ~~GRAVEL~~ sand PACK:

	Depth		Size	Material
From 26'	To 40	Ft.	fine to med.	sand
From	To	Ft.		

14. REMARKS: Temp well be pulled out, hole cemented up.

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 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Billy R. Cooper 5-13-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T103 D9 Serial No. CE 2374
Lat. 35-04-00 Long. 83-58-04 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR D.E.M. Groundwater
DRILLER REGISTRATION NUMBER 1000

Incident No. 3371 Field ID # 8-S
STATE WELL CONSTRUCTION PERMIT NUMBER: 8 shallow

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy, N.C. County: Cherokee
off US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of N.C. (Tri-County Community College)
ADDRESS Groundwater Section
(Street or Route No.)
Raleigh N.C. 27611
City or Town State Zip Code

3. DATE DRILLED 4-28-87 USE OF WELL obs.
4. TOTAL DEPTH 13.5' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 4.79 FT. ☐ above ☒ below TOP OF CASING.
TOP OF CASING IS 1.47 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST Bailing
8. WATER ZONES (depth): 3.5'-13.5'

9. CHLORINATION: Type N/A Amount N/A

10. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From 0	To 3	Ft.	2	sch 40	PVC
From	To	Ft.			
From	To	Ft.			

11. ~~GROUT~~: Bentonite

	Depth		Material	Method
From 0	To 2	Ft.	Bentonite 3/4 pounded w/ water added.	
From	To	Ft.		

12. SCREEN:

	Depth		Diameter	Slot Size	Material
From 3.5'	To 13.5'	Ft.	2 in.	.020 in.	PVC
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

13. ~~GRAVEL~~ sand PACK:

	Depth		Size	Material
From 2'	To 13.5'	Ft.	fine/Med	sand
From	To	Ft.		

14. REMARKS: Temp. will be pulled out, hole cemented up.

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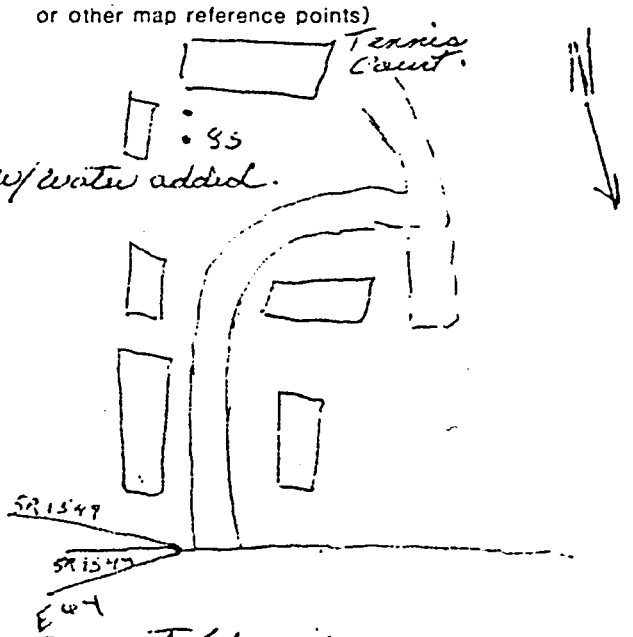
MAY 20 1987
Groundwater Section
Asheville Regional Office

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 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Billy R. Cooper 4-28-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. I-103, D-8 Serial No. CE2391
Lat. 35-04-00 Long. 83-58-04 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR D.E.M. Groundwater
DRILLER REGISTRATION NUMBER 1000

Incident No. 3371 Field ID # 8D
STATE WELL CONSTRUCTION PERMIT NUMBER: 8 deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy, N.C. County: Cherokee
off US64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of N.C. (Tri-County Community College)
ADDRESS Groundwater Sec.
(Street or Route No.)
Raleigh, N.C. 27611
City or Town State Zip Code

3. DATE DRILLED 4-28-87 USE OF WELL obs
4. TOTAL DEPTH 55' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 5.40 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 1.46 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): n/A METHOD OF TEST Bailing
8. WATER ZONES (depth): 45-55'
9. CHLORINATION: Type n/a Amount n/a

Depth From	Depth To	DRILLING LOG Formation Description
		See attached Driller's log

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Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	45	2	sch 10	SS pipe

11. GROUT: Bentonite

Depth From	Depth To	Material	Method
40	43	Bentonite 3/4" pound	w/water added
0	2.50	Bentonite 3/4" pound	w/water added.

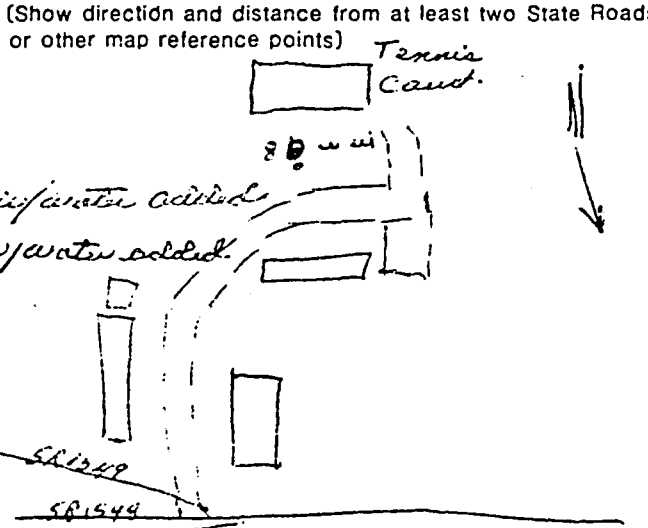
12. SCREEN:

Depth From	Depth To	Diameter	Slot Size	Material
45	55	2 in.	.010 in.	SS pipe
		in.	in.	
		in.	in.	

13. GRAVEL PACK: sand

Depth From	Depth To	Size	Material
43	55	fine/med	sand

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



14. REMARKS: Temp. will be pulled out, hole cemented up.

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

Billy R. Cooper 4-28-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T103 C36 Serial No. CE 2408
Lat. 3504 04 Long. 83 5757 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

Field id boring # 645
incident 3371

DRILLING CONTRACTOR
DRILLER REGISTRATION NUMBER 1000
STATE WELL CONSTRUCTION PERMIT NUMBER: 9 shallow

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree murphy
SR 1549 US 64 south of murphy
(Road, Community, or Subdivision and Lot No.)
County: Cherokee

2. OWNER State of NC TRI CO Community College
ADDRESS Groundwater
(Street or Route No.)
Raleigh
City or Town State Zip Code

3. DATE DRILLED 5-19-87 USE OF WELL Temp obs.
4. TOTAL DEPTH 29 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 18.41 FT. ☐ above ☐ below TOP OF CASING,
TOP OF CASING IS 1.40 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST bail
8. WATER ZONES (depth): 9-29
9. CHLORINATION: Type NA Amount NA

Depth From	Depth To	DRILLING LOG Formation Description

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Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0	To 19 Ft.	2	Sch 40	PVC
From	To Ft.			
From	To Ft.			

11. ~~GROUT~~ Bentonite

	Depth	Material	Method
From 19	To 29 Ft.	Bentonite Grade 3 (Back Fill)	Poured w/water added
From 0	To 8 Ft.		

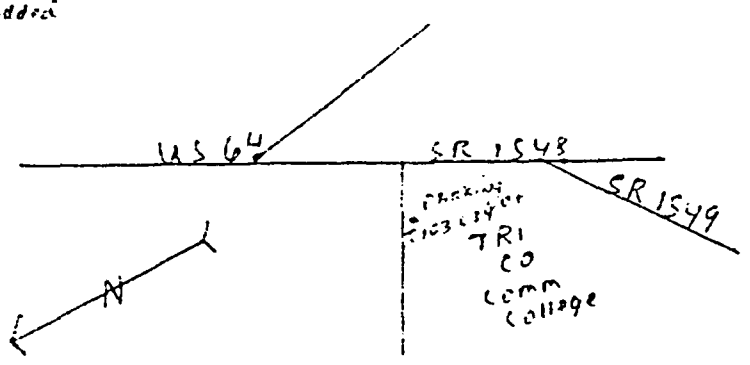
12. SCREEN:

	Depth	Diameter	Slot Size	Material
From 9	To 19 Ft.	2 in.	.020 in.	PVC
From	To Ft.	in.	in.	
From	To Ft.	in.	in.	

13. ~~GRAVEL~~ Sand PACK:

	Depth	Size	Material
From 9	To 19 Ft.	med	
From	To Ft.		

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



14. REMARKS: well located beside parking lot - hole drilled to deep bentonite poured 19-29

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

Timothy Hill 5-26-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY
Quad. No. T103C34 Serial No. CP 2384
Lat. 35 04 04 Long. 83 57 57 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

Field ID boring # 640
incident # 3371

DRILLING CONTRACTOR
DRILLER REGISTRATION NUMBER 1000
STATE WELL CONSTRUCTION PERMIT NUMBER: 9deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree – murphy
SR 1549 south of murphy
(Road, Community, or Subdivision and Lot No.)
County: Cherokee

2. OWNER State of NC TRI Co Community College
ADDRESS Groundwater
(Street or Route No.)
Raleigh
City or Town State Zip Code

3. DATE DRILLED 5-19-87 USE OF WELL Temp obs.
4. TOTAL DEPTH 71 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 18.59 FT. ☐ above ☐ below TOP OF CASING.
TOP OF CASING IS .92 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST bail
8. WATER ZONES (depth): 14 - 71
9. CHLORINATION: Type NA Amount NA
10. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From	0	To 61 Ft.	2	Sch 10	Stainless Steel
From		To Ft.			
From		To Ft.			

11. ~~GROUT~~ Bentonite

	Depth		Material	Method
From	0	To 15 Ft.	Bentonite Grade 3	Poured w/ water Added
From		To Ft.		

mud backfill 40' to 71'

12. SCREEN:

	Depth		Diameter	Slot Size	Material
From	61	To 71 Ft.	2 in.	.010 in.	Stainless Steel
From		To Ft.	in.	in.	
From		To Ft.	in.	in.	

13. ~~GRAVEL~~ SAND PACK:

	Depth		Size	Material
From	15	To 40 Ft.	mid	
From		To Ft.		

14. REMARKS: well located beside parking lot

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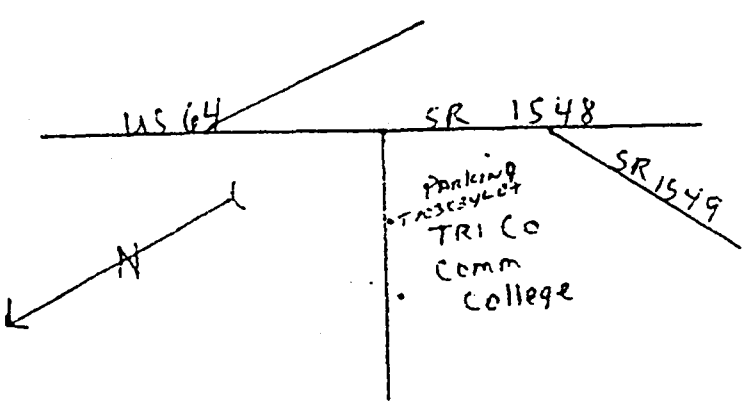
Groundwater Section
Asheville Regional Office

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 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Timothy W Nell 5-26-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. J 103 d 15 Serial No. CE 2390
Lat. 35 04 07 Long. 83 58 04 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR
DRILLER REGISTRATION NUMBER 1000

Field I D boring # B105
Incident # 3371
STATE WELL CONSTRUCTION PERMIT NUMBER: 10 shallow

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree - murphy County: Cherokee
SR 1549 US 64 South of murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of NC Tri Co Community College
ADDRESS Groundwater (Street or Route No.)
Raleigh
City or Town State Zip Code

3. DATE DRILLED 5-21-87 USE OF WELL Temp test
4. TOTAL DEPTH 39 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 36.46 FT. ☐ above ☐ below TOP OF CASING,
TOP OF CASING IS 1.35 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): NA METHOD OF TEST BAIL
8. WATER ZONES (depth): 34-39'
9. CHLORINATION: Type NA Amount NA

DRILLING LOG

Depth From	Depth To	Formation Description

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MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	28	2	sch 40	PVC

11. ~~GROUT~~: Bentonite

	Depth From	Depth To	Material	Method
	24	26	Bentonite Grade 3/8 gravel	w/water added
	0	7		
Cuttings	7-	TO 24		

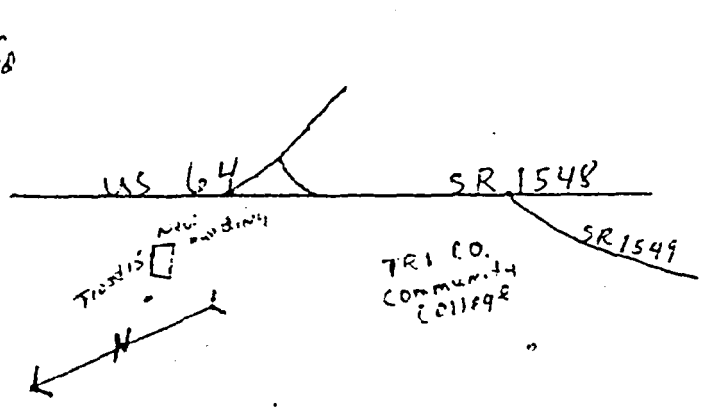
12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	28	38	2 in.	.020 in.	PVC
			in.	in.	
			in.	in.	

13. ~~GRAVEL~~ PACK: Sand

	Depth From	Depth To	Size	Material
	26	38	med	

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



14. REMARKS: Located behind new building

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

Timothy W. Hill 5-26-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T-103,013 Serial No. CE 2386
Lat. 35-04-03 Long. 83-58-00 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR D. E. M. Groundwater
DRILLER REGISTRATION NUMBER 1000

Field. 10 # 10-0 Incident No 3311
STATE WELL CONSTRUCTION PERMIT NUMBER: 10 deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy County: Cherokee
off US 64 south of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of N.C. Tri-County Community College
ADDRESS Groundwater Bldg. (Street or Route No.)
Raleigh N.C. 27611
City or Town State Zip Code

3. DATE DRILLED 5-13-87 USE OF WELL Obs.
4. TOTAL DEPTH 55' CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 36.30 FT. ☐ above ☐ below TOP OF CASING,
TOP OF CASING IS 1.42 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST Bailing
8. WATER ZONES (depth): 45'-55'

. CHLORINATION: Type N/A Amount N/A

0. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From 0	To 45	Ft.	2	sch 40	PVC
From	To	Ft.			
From	To	Ft.			

1. ~~GROUT~~: Bentonite

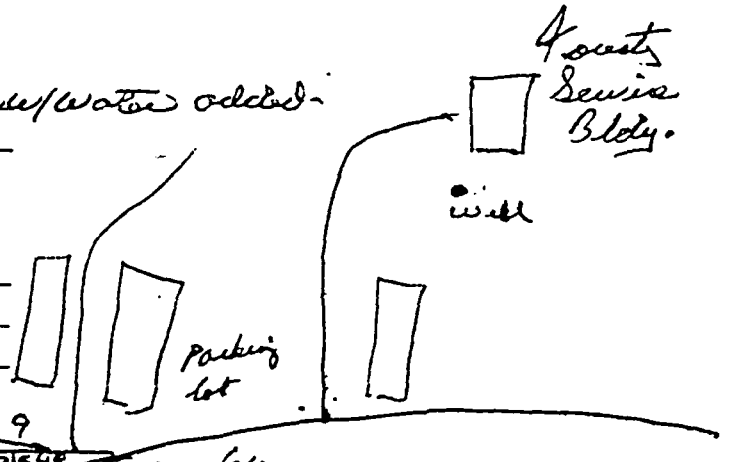
	Depth		Material	Method
From 0	To 41	Ft.	Bentonite Chipped 3/4"	Poured w/water added.
From	To	Ft.		

2. SCREEN:

	Depth		Diameter		Slot Size		Material
From 45	To 55	Ft.	2	in.	.020	in.	PVC
From	To	Ft.		in.		in.	
From	To	Ft.		in.		in.	

3. ~~GRAVEL~~ PACK: sand.

	Depth		Size	Material
From 41'	To 55'	Ft.	fine to Med	sand
From	To	Ft.		



4. REMARKS: Temp well to be pulled out, hole cemented up.

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MAY 29 1987
Groundwater Section
Asheville Regional Office

Drilling Log
Depth From To | Formation Description
see attached Driller's log.

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 15 NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Billy R. Cooper 5-13-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T103 C33 Serial No. Ce 2377
Lat. 35 04 09 Long. 83 57 57 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR D.EM Groundwater
DRILLER REGISTRATION NUMBER 1000

*see map Field ID Boring b 11d 11 dup
STATE WELL CONSTRUCTION PERMIT NUMBER: incident # 3371

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree-Murphy County: Cherokee
SR1549 US64 Tri Co. Community College
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of NC Tri Co Comm College
ADDRESS Groundwater Sec (Street or Route No.)
Raleigh (City or Town) State Zip Code

. DATE DRILLED 5-5-87 USE OF WELL Temp obs
. TOTAL DEPTH 86'6" CUTTINGS COLLECTED ☐ Yes ☒ No
. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
. STATIC WATER LEVEL: 21.94 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 1.38 FT. ABOVE LAND SURFACE.
. YIELD (gpm): NA METHOD OF TEST bail
. WATER ZONES (depth): 9-14 31-86'6"
. CHLORINATION: Type NA Amount NA

Depth From	Depth To	DRILLING LOG Formation Description

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MAY 29 1987
Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

0. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	76	2	Sch 40	PVC

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

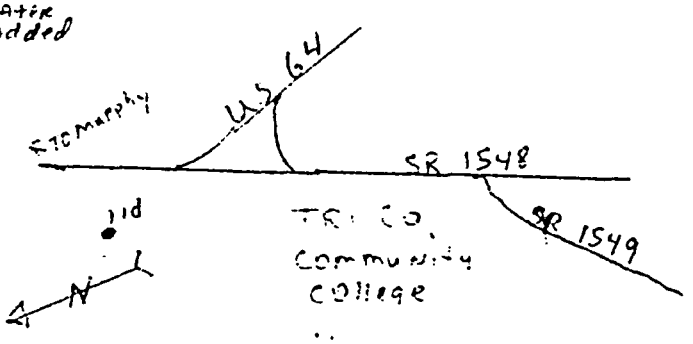
1. ~~GROUT~~ Bentonite

	Depth From	Depth To	Material	Method
	20	22	Bentonite Grade 3/8"	Poured w/ water Added
	0	2	Bentonite Grade 3/8"	Poured w/ water Added

Cuttings- 20 to 2

2. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	76	86	2 in.	.020 in.	PVC
			in.	in.	
			in.	in.	



3. ~~GRAVEL~~ Sand PACK:

	Depth From	Depth To	Size	Material
	22	?		

4. REMARKS: Hole Filled in while setting well could not get sand to bottom of screen
Well Located in Field near New Building

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

Timothy Hill 5-7-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Environmental Management and copy to well owner.

W-1 Revised 11/84

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. T103 C35 Serial No. Ce 2397
Lat. 350409 Long. 835757 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

Field ID boring # b115
incident # 3371

DRILLING CONTRACTOR
DRILLER REGISTRATION NUMBER 1000
STATE WELL CONSTRUCTION PERMIT NUMBER: 11 shallow

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Peachtree murphy County: Cherokee
SR 1549 US 64 south of murphy
(Road, Community, or Subdivision and Lot No.)

. OWNER state of NC TRI Co Community college
ADDRESS Groundwater
(Street or Route No.)
Raleigh
City or Town State Zip Code
. DATE DRILLED 5-20-87 USE OF WELL Temp test
. TOTAL DEPTH 29 CUTTINGS COLLECTED ☐ Yes ☑ No
. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
. STATIC WATER LEVEL: 11.44 FT. ☐ above ☑ below TOP OF CASING,
TOP OF CASING IS 1.42 FT. ABOVE LAND SURFACE.
. YIELD (gpm): NA METHOD OF TEST bail
. WATER ZONES (depth): 9'-19'
. CHLORINATION: Type NA Amount NA

Depth From	Depth To	DRILLING LOG Formation Description

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Groundwater Section
Asheville Regional Office

If additional space is needed use back of form.

0. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	19	2	sch 40	PVC

1. ~~GROUT~~: Bentonite

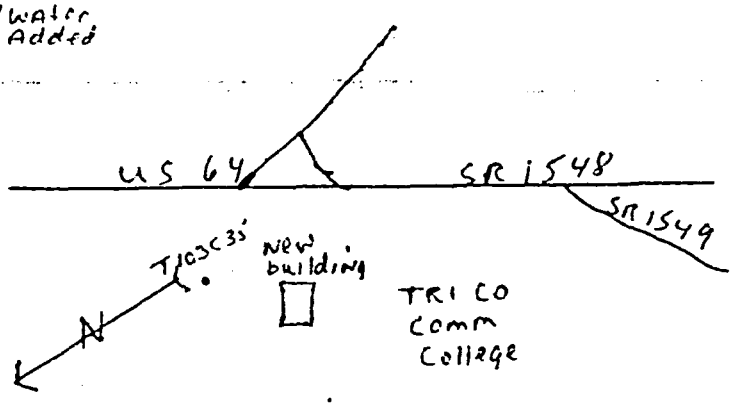
	Depth From	Depth To	Material	Method
	0	18	Bentonite Grade 3/8	Poured w/ water added

2. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	19	29	2 in.	.020 in.	PVC
			in.	in.	
			in.	in.	

3. ~~GRAVEL~~ SAND PACK.

	Depth From	Depth To	Size	Material
	18	29	med	



4. REMARKS: well located in open field beside new building

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

Timothy Hill 5-26-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Environmental Management and copy to well owner.

W-1 Revised 11/84

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. F-103, O-14 Serial No. CE2342
Lat. 35-04-03 Long. 83-54-03 Pc
Minor Basin
Basin Code
Header Ent. GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR D.E.M. Groundwater
DRILLER REGISTRATION NUMBER 1000
Field ID # 12-0 Incident # 3371
STATE WELL CONSTRUCTION PERMIT NUMBER: 12 deep

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Murphy County: Cherokee
off US 64 South of Murphy
(Road, Community, or Subdivision and Lot No.)

2. OWNER State of N.C. Tri-County Community College
ADDRESS Groundwater Sec.
(Street or Route No.)
Raleigh N.C. 27611
City or Town State Zip Code

3. DATE DRILLED 5-14-87 USE OF WELL Obs.
4. TOTAL DEPTH 36.5 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 20.16 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 1.34 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST Bailing
8. WATER ZONES (depth): 26.5' - 36.5
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	26.5 Ft.	2	sch40	PVC
		Ft.			
		Ft.			

11. GROUT: Bentonite

	Depth From	To	Material	Method
	0	14 Ft.	Bentonite Crushed 3/4"	poured w/water added.
		Ft.		

12. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	26.5	36.5 Ft.	2 in.	.020 in.	PVC
		Ft.	in.	in.	
		Ft.	in.	in.	

13. GRAVEL PACK: sand

	Depth From	To	Size	Material
	14'	16' Ft.	fine to med.	sand
	25	36.5 Ft.	fine to med.	sand

14. REMARKS: Temp. well to be pulled, hole cemented up.

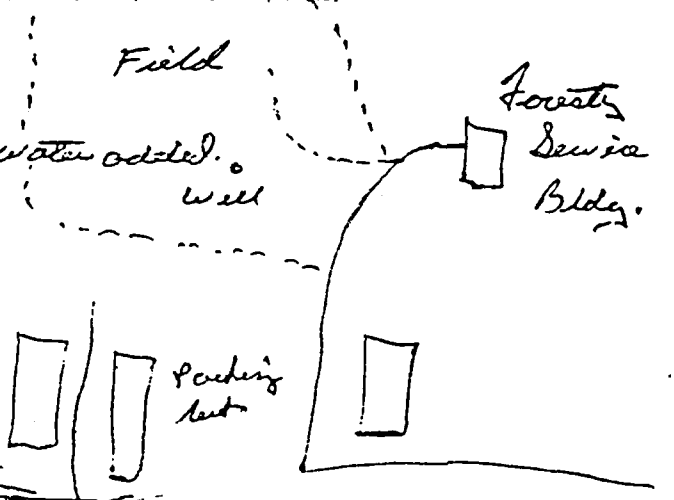
DRILLING LOG

Depth From	To	Formation Description
See		attached Driller's log.

RECEIVED
MAY 29 1987
Groundwater Section
Asheville Regional Office

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 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Billy R. Cogan 5-14-87
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

LITHOLOGIC LOGS

D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri-County Comm. Coll: Peachtree County Cherokee Region ARO

Boring # 1 deep Date Start 5/12/87 Date Complete 5/12/87 Hydro./Tech. Eskenazy

Groundwater: 0 Hours _____ 24 Hours 8.14' from TOC Total Depth 55' Screen 45-55'

Relative Elevation 992.62 ✓ At. Land Surface ___ At. Top of Casing Drill.Equipment CME 55 Remarks _____

TOC = 1.38 (Waterlevel below TOC on June 3, 1987 = 8.40')

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log	Standard Penetration B.P.F. 0 50 100
	1					Moist med brn sdy silt to 2'		
	4.0	15	17	25/5"		Rock of laminated silt/siltstone (boulder) over hard or brn purple pebbly mic sdy silt, garnetiferous, Sap. of schist. HNU=0 Moi		est 47
	5							
	9.0	15	25/5"			V. hard or-purple-whitish gray lam. mic. silt w/ some gold (sericitic?) layers + white pods + streaks + laminae. Sap of schist HNU=0 Moi		
	10							est 60
	14.0	21	25/5"			V. hard, same, w/ hard qtzte pebble (rounded) -- probably fell in. HNU=0, Moi		
	15							est 60
	19.0	23	25/5"			V. hard purple + white + red mic lam. silt, orange at bottom of split spoon. Mn layers throughout HNU=0 Moi		
	20							est 60
	24.0	16	25/5"			V. hard same, getting crusty, also garnetiferous HNU=0 Moi		
	25							est 60
	29.0	9	12	14		V. stf garnetif. purp + gold vert lam silt w/ crusts of Mn. Sap of schist HNU=0 Moi		
	30							

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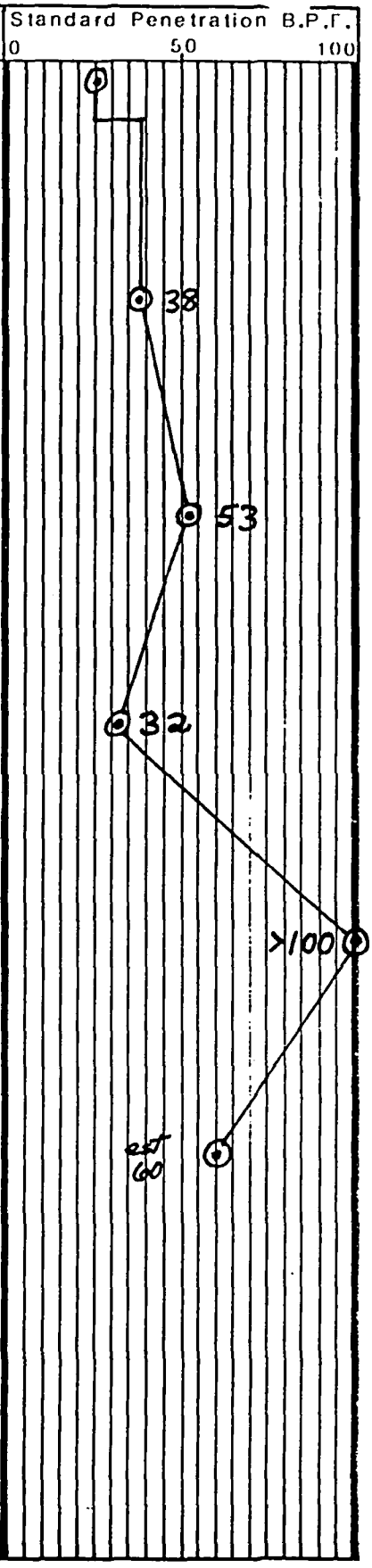
GW-2 Revised 8/86

D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri-County Comm College: Peachtree County Cherokee Boring # 1 dup

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
						Hard, same, w/ white lam. + blebs.	
	34.0	18	18	20		HNV=0 Moi	
						V. hard, same, almost vert. (~60°) crinkled + crenulated, alternating w/ orange, white, and red-orange silty lamina, and containing blk Mn zones.	
	39.0	21	23	25/5"		HNV=0 Moi	
	44.0	7	10	22		Hard, same, orange + purple w/ blk	
						HNV=0 Moi	
	49.0	25/1"				V. hard, same, some crusty blk layers, red silt getting more indurated.	
						HNV=0 Moi	
	54.0	29/5"				V. hard, same	
	55.0					HNV=0 Moi	
						Auger refusal in v. hard red silt with crusty blk Mn layers at 55'	



D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri County Comm Coll: Peachtree County Cherokee Region ARO

Boring # 2deep Date Start 5/6/87 Date Complete 5/6/87 Hydro./Tech. Eskenazy

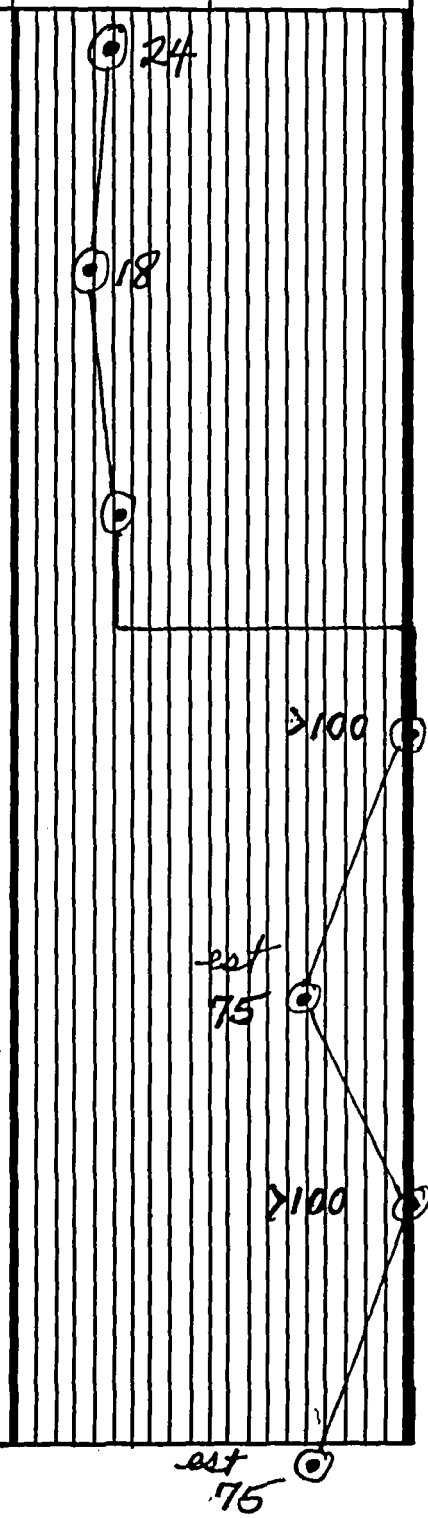
Groundwater: 0 Hours _____ 24 Hours 12.60 Total Depth 30' Screen 20'-30'

Relative Elevation 988.83 ✓ At. Land Surface / At. Top of Casing from TOC Drill.Equipment CME55 Remarks _____

TOC = 1.00 (Water level below TOC on June 3, 1987 = 12.67')

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
	1	13	11	13	FILL		
	4.0	2	12	6	SAP	V.stiff gray-brownish-blk pebbly mic. rootysilt, fill, + sdy mic rusty silt. HNU=0 Dry	
	9.0	7	19	7		V.stiff rusty orange v.mic. sericitic silt w/ iron, vert. bedded. Sap of schist. HNU=0 Damp	
	14.0	19	20/1"			V.stiff, same.	
	19.0	25/4"				V.hard, pinkish or-brn silt, garnetiferous + sericitic, sap of vert bdd schist HNU=0 Moist	
	24.0	15	25/2"			V.hard same, w/ purp-red layers crusty in parts. Sap of sericitic schist. HNU=0 Moist	
	29.0	25/4"				V.hard same, or-brn + purplish-reddish layers, garnetiferous. Sap of sericitic schist HNU=0 Moi	
	30					V.hard crusty + well-indurated in parts, blk + orange w/ blk + some purple PWR-schist. HNU=0 Moi	
						Auger refusal at 30' in sericitic schist (PWR)	

Standard Penetration B.P.F. 0 50 100



GW-2 Revised 8/86

D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri-County Comm Coll: Peachtree County Cherokee Region ARO

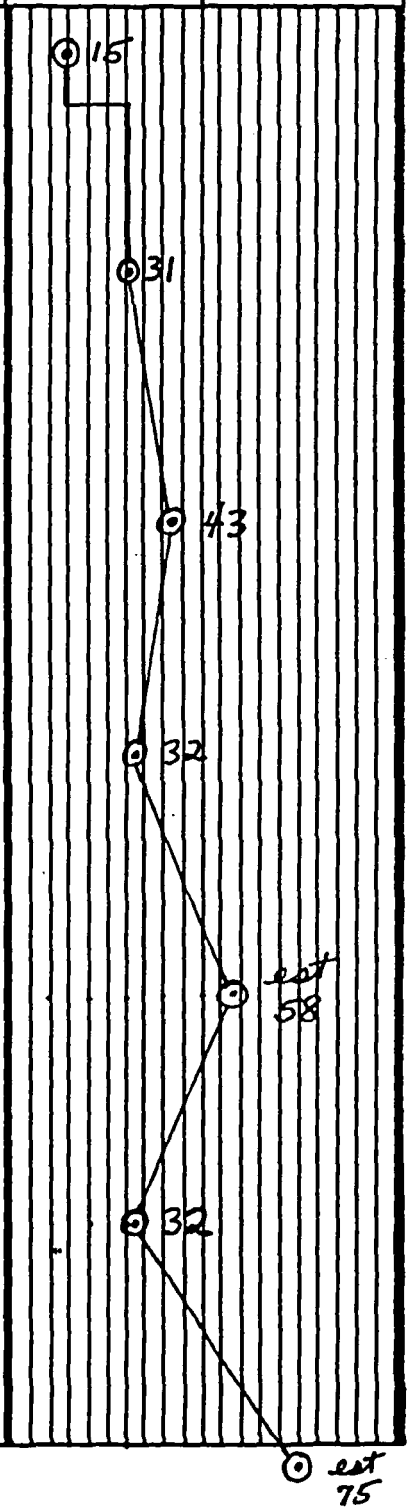
Boring # 3 dup Date Start 5/5/87 Date Complete 5/5/87 Hydro./Tech. Eskenasy

Groundwater: 0 Hours _____ 24 Hours 5.86 (From TOC) Total Depth 51.5 Screen 41-51

Relative Elevation 983.06 ✓ At. Land Surface ___ At. Top of Casing Drill.Equipment CME 55 Remarks _____

TOC = 0.79 (Water level below TOC on June 3, 1987 = 5.94')

Elev.	Depth	Blow Count 6"	6"	6"	Sample No.	Description	Log
	1	13	8	7		Stiff grayish dk brn mottled red and pump.-red rootty sdy silt	
						HNU=0 Sap of siltst Moi	
	4.0	9	15	16		Hard purple-blk-orange sli sdy mic silt, and black mottled orange	
	5					mic. silt, Sap of sericitic schist w/ som sltst.	
						HNU=0 Moi	
						Hard vertically bidded orange	
	9.0	12	21	22		and reddish purple + white v. mic.	
	10					v. clayey silt w/ some granules.	
						HNU=0 Sap. of sericitic schist + sltst. Moi	
						Hard Vertically tiger striped orange	
						and black silt and purple + orange +	
	14.0	11	14	18		white mic. silt. All garnetiferous	
	15					HNU=0 Sap of sericitic schist + Sltst. Moi	
						V. hard garnetif. orange with black stripes	
						mic silt and purple + garnetif orange lt.	
	19.0	20	20	25/4"		brn v mic. silt, Sap of sericitic schist + siltstone	
	20					HNU=0 Moi	
						Hard purplish orange garnetiferous	
						mic. silt w/ blk mineralized	
	24.0	10	14	18		zone of crusty Mn. Vert bdd.	
	25					HNU=0 Sap of sericitic schist Moi	
						V. hard orange-brown + black mic	
						silt and or-red + silvery white	
	29.0	8	25/4"			mic. silt, garnetiferous, Sap of	
	30					sericitic schist + siltstone	
						HNU=0 Moi	

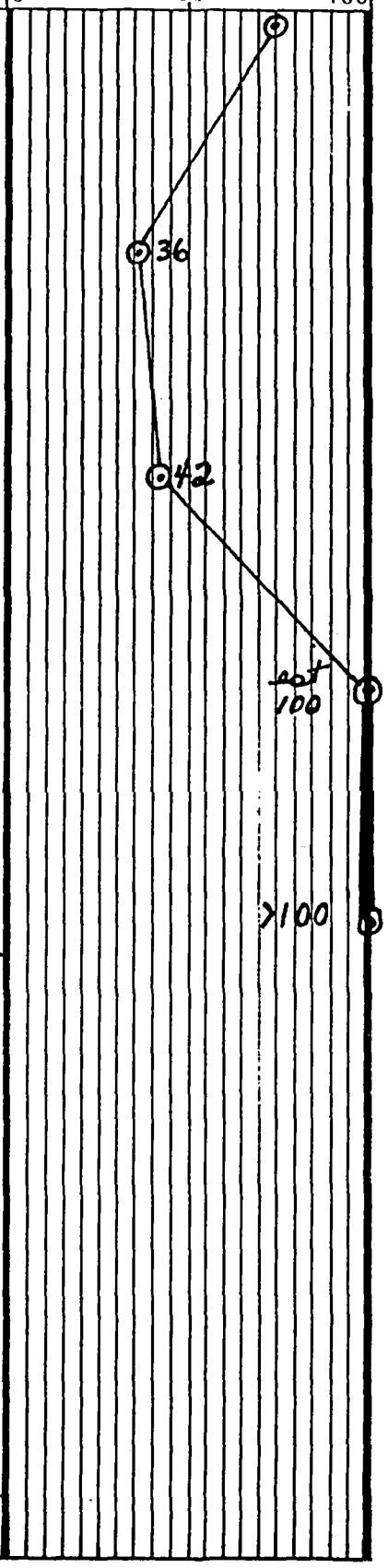


D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Ident # 3371 Project Tri-County Comm College-Peachtree County Cherokee Boring # 3deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
						V.hard orange-pinkish-reddish-purple w/ black spots and slimic silt reddish black w/ pinkish orange sli sdy silt,	
	34.0	10	14	22		garnetiferous, sap. of sericitic schist + siltstone.	
						HNU=0 Moi	
	39.0	12	20	22		Hard orange silt + purple and white sericitic silt, sap. of schist + siltstone	
						HNU=0 Moi	
	44.0	25/3"				V.hard Orange silt with silvery sericitic layers, SWR of schist/siltstone	
						HNU=0 Moi	
	49.0	17	25/2"			V.hard, same	
						HNU=0 Moi	
	51.5					Auger refusal at 51.5' in SWR of schist + siltstone	

Standard Penetration B.P.F. (0 – 50 – 100)



D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri-County Comm Coll: Peachtree County Cherokee Region ARO

Boring # 4deep Date Start 4/29/87 Date Complete 4/29/87 Hydro./Tech. ESKENASY

Groundwater: 0 Hours _____ 24 Hours 14.38 from TOC Total Depth 94' Screen 84'-94'

Relative Elevation 981.64 ✓ At. Land Surface ___ At. Top of Casing Drill.Equipment CME 55 Remarks This is a filled-in area with chunks of rock + cement

TOC = 1.02 (Water level below TOC on June 3, 1987 = 14.18')

Elev.	Depth	Blow Count 6"	6"	6"	Sample No.	Description	Log	Standard Penetration B.R.F. 0 50 100
	1							
						Med. Stiff brn sli sdy pebbly silt, w/ qtzite pebbles		
	4.0	4	3	5		Fill. Moi		
	5							8
						Soft brown sli sdy v. silty clay. Fill		
	9.0	2	2	2		HNU = 1.8 Moi-Wet		
	10							4
						Sap at 12' (+ SWR)		
						Hard brown w/ gold + red-brn SWR--weathered schist, with		
	14.0	3	15	25/5"		v. silty clay - clayey silt (Sap of schist)		
	15							
						HNU = 5.0 Moi - Wet		est 45
						V. hard purp + or sli. sdy silt, sap		
	19.0	9	22	25/5"		overlying or-brn SWR of sericitic schist. HNU = 2.0 Moi		
	20							est 52
						V. hard purple-red + orange weathered sericitic schist,		
	24.0	25/1"				crumbly. Sap/SWR.		
	25					HNU = 0.8 Moi		>100
						V. hard gold slaty sericitic schist (SWR) overlying reddish		
	29.0	24	25/3"			purplish brown laminated mic silt (sap of schist)		
	30							

HNU = 1.2 pulsing

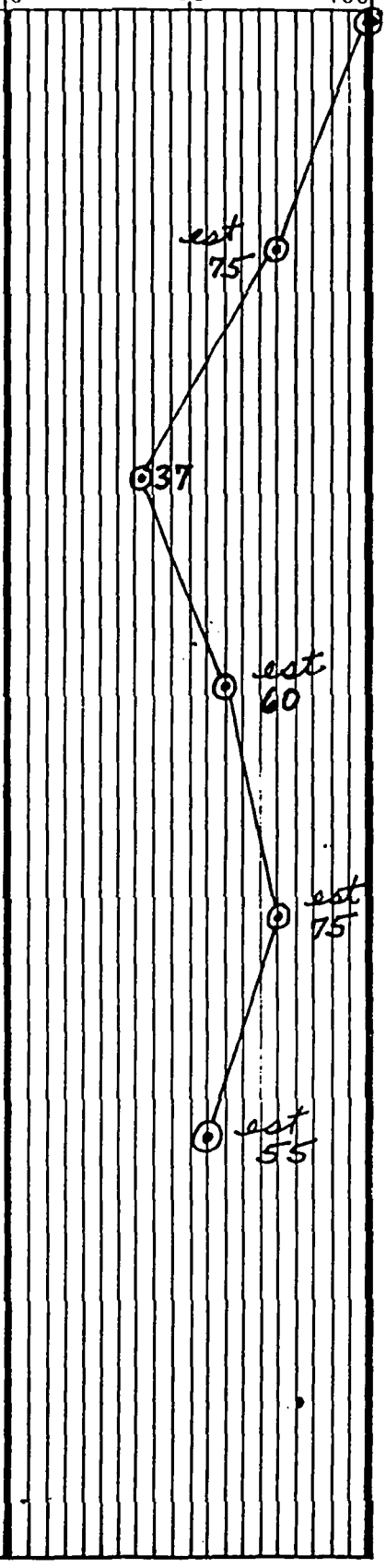
est 100

D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri-County Comm Coll: Peachtree County Cherokee Boring # 4 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
						V. hard vert. dominated silvery-gold w/ Mn stain seric. PWR of schist/Sap.	
	34.0	24	25/4"			HNV=0 Moi	
						Hard gold + orange crumbly sericitic schist, weathered to SWR/Sap. Vert + horiz bedded.	
	39.0	17	19	18		HNV=0.3 Moi to Wet	
	44.0	25/5"				V. hard greenish silvery brn silty SWR w/ some sap-like clayey + brittle parts. Seric. schist.	
						HNV=0.1 Moi	
	49.0	14	25/4"			V. hard friable slick-feeling greenish silvery gray seric. (SWR) schist. Color Δ at 50.5 to red-or-brn silt (sap of siltstone. HNV=0.0 Moi	
	54.0	7	17	25/4"		Same, mic. Moi	
						no further split spoons because cuttings so wet + slippery + rope too slick	
						Continued drilling in same material to 94'.	
	94.0						

Standard Penetration B.P.F. (0 – 50 – 100)



D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri County Community College - Peachtree County Cherokee Region ARO

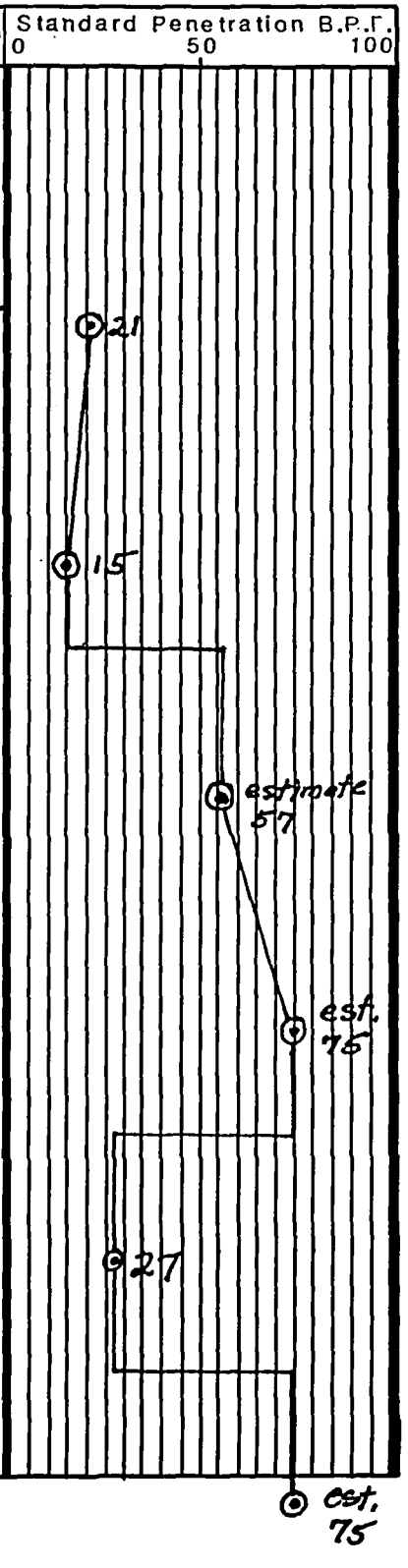
Boring # 5 deep Date Start 5/20/87 Date Complete 5/21/87 Hydro./Tech. Eckenroy

Groundwater: 0 Hours _____ 24 Hours 5.16 below land surface (Casing not yet in) Total Depth 78' Screen 68'-78'

Relative Elevation 975.27 ✓ At. Land Surface ___ At. Top of Casing Drill.Equipment CME 55 Remarks Below sand filter.

Top of Casing = 2.15 above land surface (Water level below TOC on June 3, 1987 = 6.07)

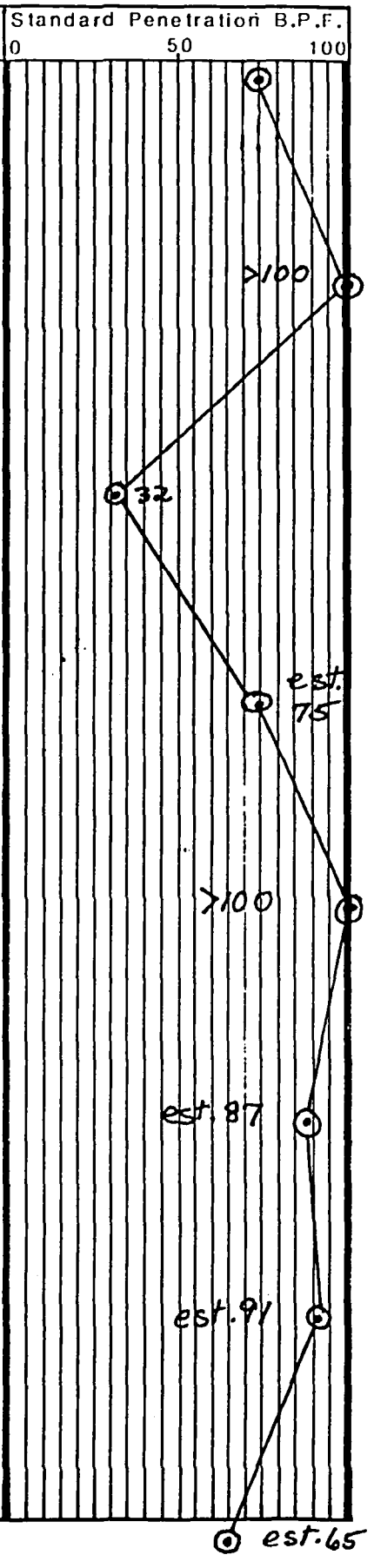
Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
	1					Rooty dk.brn sdy silt (0-1') Moi	
						Lt.brn sli. sdy cly mic. silt (1-3') Moi	
						Or.-brn sli sdy cly mic. silt (3-4') Moi	
	4.0	5	6	15		Or-red-brn sli peb sli sdy sli cly silt (4-5')	
	5						▽
					SAP.	V. stiff brnish-reddish-orange mic. silt	
						Sap of siltstone + schist. Moi. HNU = 0.0	
						(5-5.5')	
	9.0	3	6	9		Stiff or-red vert. laminated Mn-	
	10					stained crusty sli. mic. silt with	
						lt. or-brn sli sdy mic silt (also	
						Mn-stained) Sap. of schist/siltstone	
						HNU = 0.0 Moist	
	14.0	22	19	25/4"		Hard or + reddish brn v. mic silt,	
	15					Vert. laminated, Sap of schist	
						HNU = 0.0 Moist	
						V. hard silvery gold + red vert.	
	19.0	25/4"				lam. silt w/ crusty Mn stains	
	20					Sap of schist, HNU = 0.1 Moi-Wet	
						V. stiff alternating or. w/ white	
						+ black flecked mic. silt + goldish	
	24.0	6	10	17		brn v. mic silt + brnish-red-orange	
	25					v. mic silt, all Mn-stained, SAP	
						of schist + siltst. HNU = 0.0 Moi-Wet	
						V. hard reddish-brn silt w/ white	
	29.0	25/4"				and silvery greenish mic. mottles and	
	30					some Mn stains + mottled. HNU = 0.0	
						Sap. of schist. Moist	



D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri-Co. Comm. College: Peachtree County Cherokee Boring # 5 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
						V. Hard, same. HNU=0.0. Moi.	
	34.0	8	25/2"				
	39.0	10	17	15		Hard, same with crusty zones of Mn and tough schist chunks, garnetiferous. HNU=0.0 Moi.	
	44.0	7	25/4"			V. Hard, same w/ some sd-sized garnets. Some siltst layers w/in schist (sltst: or-brn w/ blk Mn silt) Sap. Moi	
	49.0	25/3"				V. Hard, same. HNU=0.0 Moi	
	54.0	10	12	25/2"		V. Hard, same. Some pinkish sericitic zones. HNU=0.0 Moi.	
	59.0	7	16	25/2"		V. Hard, same. V. mic. + sericitic Some crusty schist zones, thin, tough qtz + Mn vein at 60.5' HNU=0.0 Moi	
	64.0	6	13	25/3"		V. Hard, Same mic. golden brn, Sap of schist	



D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri.Co.Comm.College: Peachtree County Cherokee Boring # 5 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log	Standard Penetration B.P.F. 0 50 100
						V. hard, same, but crumbly		
						+ lt. greenish brown. Moist.		
	69.0	25/22				Mn. spots. HNU=0.0		
						Last split spoon at 70.5'		>100
	74.0					Getting very tight at 74'		
						Starter broke at 78'		
	78.0					Augers stuck overnight.		
						Removed the next day		
						without attempting to drill		
						deeper.		
						Boring terminated at 78'		
						in saprolite of		
						sericitic schist.		

D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri-County Comm Coll: Peachtree County Cherokee Region ARO

Boring # 6 Deep Date Start 5/12 Date Complete 5/12 Hydro./Tech. Eskenazy

Groundwater: 0 Hours _____ 24 Hours 16.44 Total Depth 36.5 Screen 31.5-36.5

Relative Elevation 991.80 ✓ At. Land Surface (from TOC) ___ At. Top of Casing Drill.Equipment CME 55 Remarks _____

TOC = 1.31 (Water level below TOC on June 3, 1987 = 16.58)

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log	Standard Penetration B.P.F. 0 50 100
	1							
						V. stiff or-red mic. silt speckled white with or-rust-colored		
	4.0	9	12	16		mottles. HNU=0 Moi		
	5							28
						V. stiff purple-orange-red mic. vert. laminated silt with Mn-stain		
	9.0	6	9	15		+ white layers. Small white mottles throughout. Saprolite of schist/		
	10					siltstone. HNU=0 Moi		24
						~~V. Stiff~~ Purplish-reddish orange with black		
	14.0	5	10	15		weathered micaceous porphyroblasts + concentrations		
	15					and interbedded or-brn silt layers		
						Sap of siltstone + schist. Some		25
						Mn stain. HNU=0 Moi		
	19.0	4	12	25/5"		Hard sli. sdy v. mic. silt, brn-red, w/ sd-sized chunks of		
	20					muscovite or sericite and large blk.		
						porphyroblasts interbedded with v. mic		est 42
						sli cly silt (whitish mixed w/ red +		
						blk) and tan silt. Mn crusts. HNU=0 Moi		
	24.0	15	14	15		Saprolite of sericitic schist + siltstone V. stf. brnish-red/red-brn sli sdy		
	25					silt and orange crusty sli cly		
						mic silt, Sap. of sericitic schist		29
						HNU=0 WET		
	29.0	15	25/5"			V. hd br-or-red sli cly mic silt		
						w/ a greenish-bluish gray silt		
	30					interbedded. Garnetiferous or silt		
						at bottom. Sap. of sltst + schist		est 60
						HNU=0 Moi to Wet		

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D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project TriCounty Comm Coll - Peachtree County Cherokee Boring # 6 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log	Standard Penetration B.P.F. 0 50 100
						V. hard crusty or reddish-brown mic sl cly w/		
						some crs sd + granules (disturbed?)		
	34.0	25/5"				silt w/ some inclusions of blue-		
						gray silt. Sap of schist		
	36.5					HNU = 0 Moi		est 60
						Auger refusal at 36.5'		
						in mic. silt, saprolite		
						of schist.		

D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri County Comm Coll - Peachtree County Cherokee Region AKO

Boring # 7deep Date Start 5/13 Date Complete 5/13 Hydro./Tech. Eskenasy

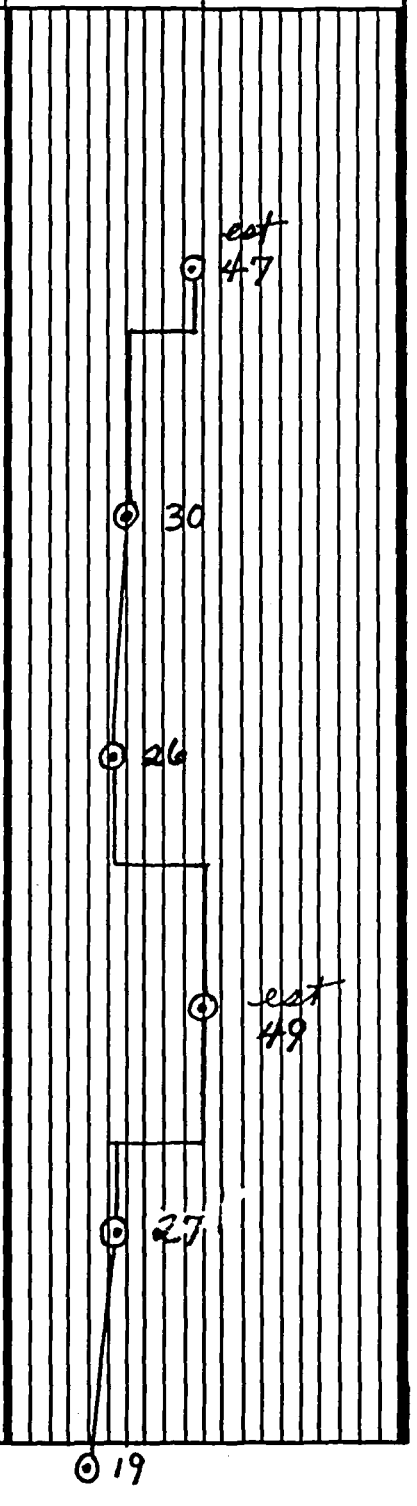
Groundwater: 0 Hours _____ 24 Hours 14.35 from TOC Total Depth 40' Screen 30-40'

Relative Elevation 984.40 ✓ At. Land Surface ___ At. Top of Casing Drill.Equipment CME55 Remarks _____

TOC = 1.26 (Water level below TOC on June 3, 1987 = 14.55)

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
	1					Cobbles + gravel at surface: fill for parking lot to 1'. Some odor of gas.	
	4.0	9	17	25/5"		Hard or-mottled purple silt overlying or. lam silt. HNU=6.2-11.5 HNU=5.7-11.0 Sap of schist Moi	
	5						
	9.0	16	14	16		V.stf. or. lam. contorted silt w/ some purple-mottled cly silt. HNU=4.5-13.3 Sap of schist Moi	
	10						
	14.0	8	9	17		V. stiff or-brn + black (Mn) mottled or laminated sdy silt ~~of~~ w/ white mottles. Garnetiferous. Sap. of schist HNU=0.1 Moi	
	15						
	19.0	9	19	25/5"		Hard or. lam. mic. silt, sap of schist w/ X-cutting Mn laminae. Wet. HNU=0.5	
	20						
	24.0	10	11	16		V.stf or-purp-white variegated mottled laminated mic silt w/ Mn. concs. + or-red rusty concs. assoc. w/ X-cutting Mn layers. HNU=0.2 Sap of schist Moi	
	25						
	29.0	10	9	10		V.stf or. lam w/ some purplish-red mic. lamina. X-cutting Mn HNU=2.05 Sap of schist Moi	
	30						

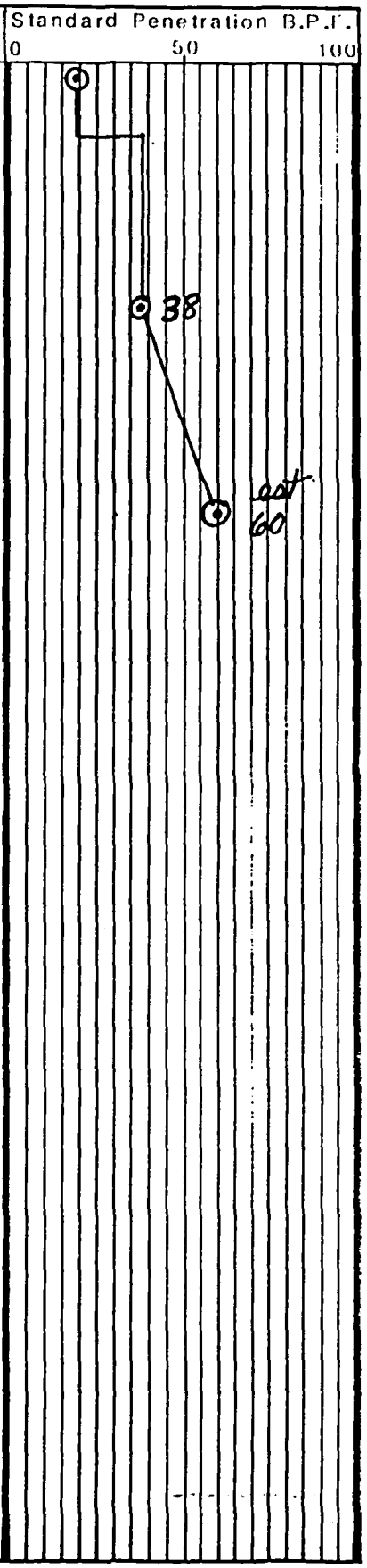
Standard Penetration B.P.F. 0 50 100



D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri County Comm Coll-Peachtree County Cherokee Boring # 7 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
						Hard orange to orange-brown	
						v. mic silt vert bdd w/	
	34.0	6	13	25		interbdd purp-red & greenish	
						gray layers. Sap of same schist	
						HNU = 1.0 Moi	
						V. hard golden brown	
	39.0	25/5"				mic. lam. silt w/ some	
	40.0					dk Mn stain.	
						HNU = 3.05 Moi	
						Auger refusal in	
						v. hard golden brn	
						Mn-stained lam.	
						mic silt at 40'	



D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri-County Comm. Coll: Peachtree County Cherokee Region ARO

Boring # 8 deep Date Start 4/28/87 Date Complete 4/28/87 Hydro./Tech. Eskenasy

Groundwater: 0 Hours 10.20 24 Hours 5.30 Total Depth 55' Screen 45-55'

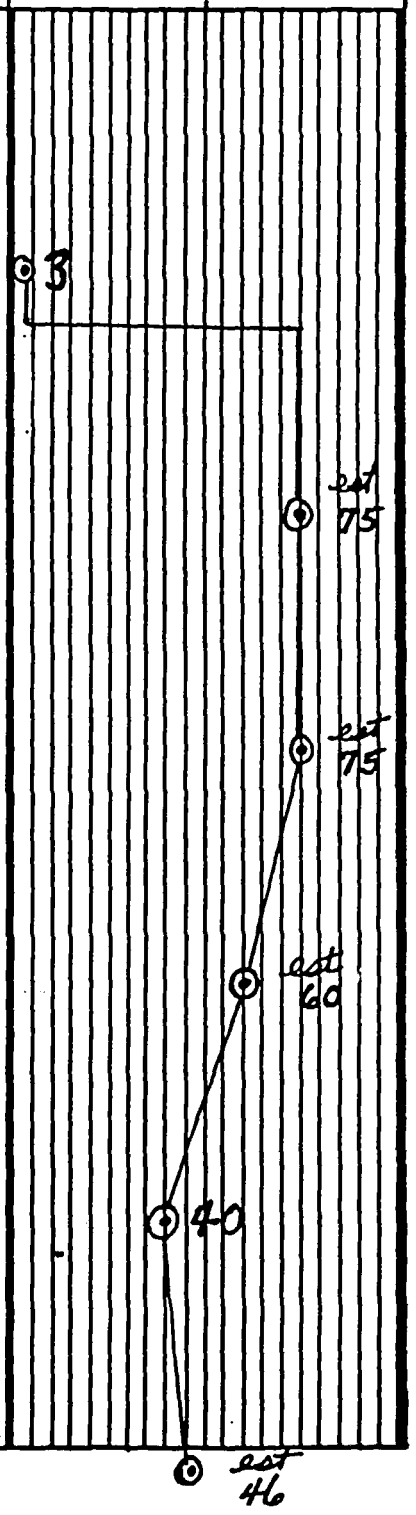
Relative Elevation 965.41 (from TOC) ✓ At. Land Surface (from TOC) At. Top of Casing Drill.Equipment CME 55 Remarks

TOC = 1.46 (Water level below T.O.C. on June 3, 1987 = 5.4')

All sericitic schist

Elev.	Depth	Blow Count 6"	6"	6"	Sample No.	Description	Log
	1					0-1 Gravelly then red ~~pebbly~~ silt	
						1-3'. Wet at 3' Some woody pieces.	
						Soft v.mic greenish-gold silt	
	4.0	1	2	1		underlying pebbly, sticky	
	5					woody slt cly brn silt	
						HNU= Moist	
						Large qtzte pebble, then V.hard	
	9.0	25/4"				friable or-brn mic. schist	
	10					w/some layers of friable qtz	
						Sap/SWR Schist	
						HNU = 0.3 Dry-Moi	
	14.0	25/4"				V.hard sap/SWR of or-brn schist	
	15					Dissolves in water to clayey silt.	
						HNU = 0.0 Dry-Moi	
						V.hard or-brn cly. silt,	
	19.0	25/5"				sap of Schist (same as above)	
	20					HNU = 0.3 Dry-Moi	
						Hard same, color change to	
						silver-gray w/ rust + some	
	24.0	10	16	24		x-cutting Mn-Stain	
	25					HNU = 0.2 Moi	
						Hard brown to or-brn mic	
						silt, SWR/sap of schist	
	29.0	14	16	25/5"		HNU = 0.2 Moi	
	30						

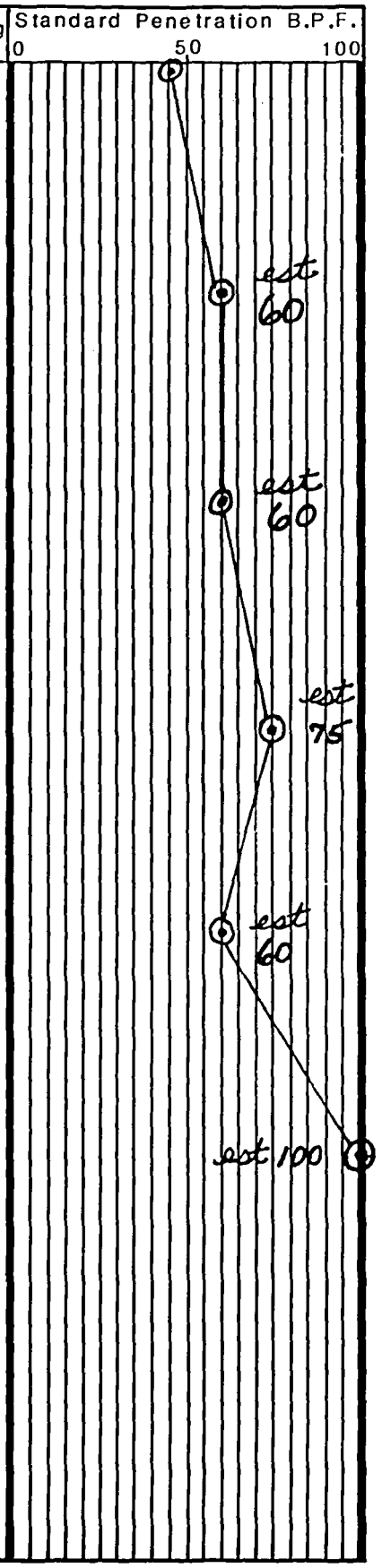
Standard Penetration B.R.F. 0 50 100



D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri-County Comm Coll: Peachtree County Cherokee Boring # 8 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
						V. hard. lt brn to golden brn sericitic silt, SWR/Sap of schist.	
	34.0	25/5"				HNU = 0.2 Dry-Moi	
						V. hard same	
	39.0	25/5"				HNU = 0.2 Dry to Moi	
						V. hard mouse-colored brown	
	44.0	23	25/4"			same.	
						HNU = 0.2 Dry to Moi	
						V. hard same, gray-brn	
	49.0	25/5				HNU = 0.2 Moi	
						V. hard greenish-gray to dark gray same, sli. slaty	
	54.0	25/3"				HNU = 0.2 Moi	
	55.0						
						Auger refusal at 55' in a moist greenish dark gray sli slaty sericitic schist (Sap/SWR)	

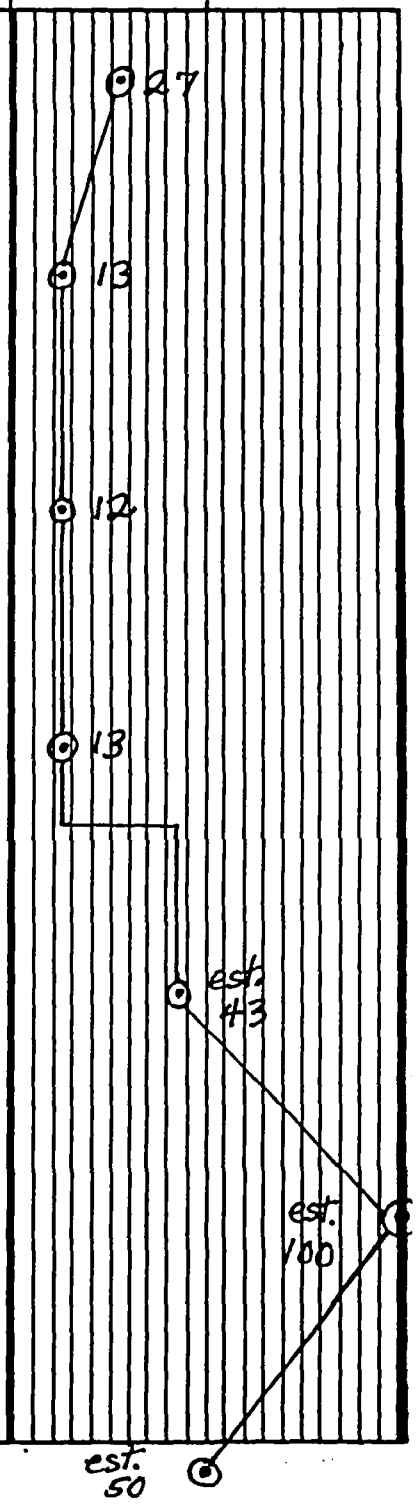


D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri-County Comm. College-Peachtree County Cherokee Region ARO
Boring # 9 dup Date Start 5/19/87 Date Complete 5/19/87 Hydro./Tech. Eskenazy
Groundwater: 0 Hours 14.08 below T.O.C. 24 Hours 17.98 Total Depth 71' Screen 61-71'
Relative Elevation 999.28 ✓ At. Land Surface ___ At. Top of Casing Drill.Equipment CME 55 Remarks
TOC = .92 (Water level below T.O.C. on June 3, 1987 = 18.59')

Elev.	Depth	Blow Count 6"	6"	6"	Sample No.	Description	Log
	1	4	12	15		Rooty v. stiff soil then or-pinkish-white lam. sericitic mic silt then pebbly red sdy rooty silt HNU=0	
	4.0	10	7	6		Stiff sli cly, sli. mic. or-brn silt w/ pinkish v. mic. pebbles HNU=0 Moi	
	5						
	9.0	4	4	8		Stiff or-brn w/ red mottles sli cly v. mic. (w/ crs-grained musc. in spots) silt. HNU=0 Moi	
	10						
	13.0					Pebbly layer at 13'--old stream bed here.	
	14.0	9	7	6		Stiff dk. brn sli. pebbly silty m-crs mic. sd. Alluvium. HNU=0	
	15						
	19.0	3	5	25/4"		Hard or-brn mic. sericitic vert. lam. silt, Mn. concs. perpendic. to laminae. HNU=0.0 Wet	
	20					Sap of sericitic schist.	
	24.0	25/3"				v. Hard lt. or-brn v. mic. crusty lam. silt, sap of sericitic schist HNU=0 Moi to Wet	
	25						
	29.0	8	12	25/4"		Hard to v. hard or. + lt. gold-brn laminated mic silt w/ interbeds of or-brn silt, all Mn-mottled along + across laminae. Sap of silt st. + schist. HNU=0 Moi to wet	
	30						

Standard Penetration B.R.F. 0 50 100

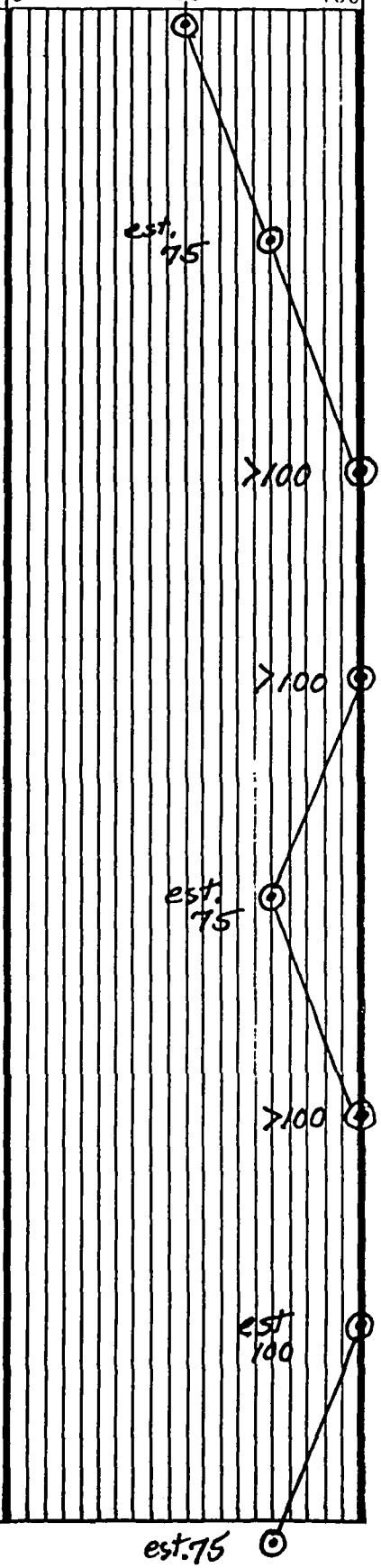


D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri-County Comm. Coll.-Peachtree County Cherokee Boring # 9 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
	34.0	25/4"				V. Hard, same or-brn mic crusty silt, Sap of schist w/ Mn stain HNV = .05 Moi	
	39.0	25/2"				V. Hard, same, with some greenish silvery mic. layers HNV = 0.0 Moi-Wet	
	44.0	11	25/2"			V. Hard, same, crusty, mic, Mn-stained. 2"-3" v. mic paper-thin greenish gray laminae HNV = 0 Moi-Wet	
	49.0	5	25/4"			V. Hard, same, greenish gray v. mic silt + or-brn mic silt, sli garnetiferous Sap of schist HNV = 0 Moi-Wet	
	54.0	15	25/2"			V. Hard, same, not garnetiferous HNV = 0 Moi-Wet	
	59.0	19	25/3"			V. Hard, same HNV = 0 Moi-Wet	
	64.0		25/4"			V. Hard vert. lam. greenish-brn-gray sli. slaty mic. silt Sap of Schist HNV = 0.0 Moist	

Standard Penetration B.P.F.



D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri County Comm Coll-Peachtree County Cherokee Boring # 9 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log	Standard Penetration B.P.F. 0 50 100
						V. Hard greenish brownish gray slaty laminated silt w/ some sparse sand-sized garnets		
	69.0	25/4"				HNU=0 Moi		
	71.0							est. 75
						Auger refusal in vertically laminated v. hard gre-bro-gray slaty silt, sap of schist at 71.0?		

D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri County Comm Coll: Peachtree County Cherokee Region ARO

Boring # 10 dup Date Start 5/13/87 Date Complete 5/13/87 Hydro./Tech. Eshenesy

Groundwater: 0 Hours _____ 24 Hours 36.16 from TOC Total Depth 55' Screen 45-55'

Relative Elevation 992.60 ✓ At. Land Surface ___ At. Top of Casing Drill.Equipment CME55 Remarks

TOC = 1.42 (Water level below T.O.C. on June 5, 1987 = 36.30')

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log	Standard Penetration B.P.F. 0 50 100
	1					0-2' brown silt		
						2-4' orange-brn pebbly silt		
						V.stf mottled + contorted or-brn + red-or		
	4.0	9	12	17		mic. silt w/ med. sized grains of		
	5					muscovite -- disturbed sap. of schist		
						HNU = 0 Moi		29
	9.0	5	11	12		No sample, but appears to be same		
	10					as above, from cuttings.		
								23
						Orange at 13'		
						V.stf. orange w/ traces of purp. + blk		
	14.0	4	9	19		lam. mic. silt overlain by		
	15					greenish orange-tan lam. mic.		
						silt, both with x-cutting Mn		28
						Sap of schist. HNU = 0 Moi		
						V. Hard alt. beds of reddish-purp-orange		
	19.0	18	25/5"			lam moi. mic. crusty silt and purplish		
	20					mic. moi silt and softer orange-		
						brn crusty lam. mic. moi silt		est 60
						HNU = 0 Sap of Schist Moi		
						V. hard crusty or-brn + purple-		
	24.0	25/5"				or-brn mic silt w/ Mn stain		
	25					HNU = 0 Moi		
								est 60
						V. hard or-brn mic lam silt w/		
						some Mn layers. Crusty. Sap		
	29.0	25/5"				of same schist		
	30					HNU = 0 Moi		

est 60

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D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri County Comm Coll: Peachtree County Cherokee Boring # 10 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log	Standard Penetration B.P.F. 0 50 100
						Hard drilling from 31-33'		
	34.0	28	25/5"			V.hard vert. bdd garnetif. or-brn mic silt w/ traces of purplish-red + Mn stain		
						HNU=0 Moi		est 60
	39.0	9	17	23		Hard or-brn laminated v.mic silt w/ rotted black porphyroblasts (not mic.) and a few sd-sized grains of garnet; some purplish-red concentrations		
						HNU=0 Sap of schist Moi		40
	44.0		25/5"			V.hard or-brn lam. v. mic. silt w/ rotted black spots (as above)		
						Crusty at bottom; garnetiferous. HNU=0 Sap of schist Moist/wet		est 60
	49.0		25/5"			V.hard same. HNU=0		
								est 60
	54.0		25/5"			V.hard Same but seems hard to touch Some quartzite + indurated schist hrs. Sap + PWR		
	55.0							est 60
						Refusal at 55' in schist (PWR)		

D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri County Comm Coll: Peachtree County Cherokee Region ARO

Boring # 11deep Date Start 5/5/87 Date Complete 5/5/87 Hydro./Tech. ESKENASY

Groundwater: 0 Hours _____ 24 Hours 21.45 Total Depth 86.5 Screen 76-86

Relative Elevation 994.01 ✓ At. Land Surface ___ At. Top of Casing Drill.Equipment CME 55 Remarks

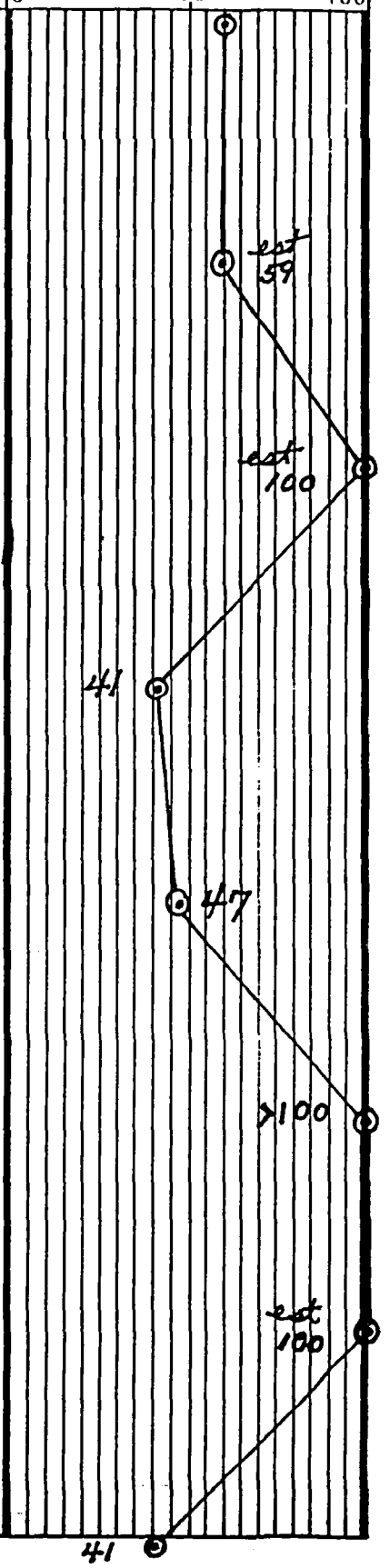
TOC = 1.38 (Water level below T.O.C. on June 3, 1987 = 21.94')

Elev.	Depth	Blow Count 6"	6"	6"	Sample No.	Description	Log	Standard Penetration B.R.F. 0 50 100
	1	6	6	8		Stiff lt. brn. sli sdy v. rooty silt.		14
	4.0	4	5	7		Stiff or-brn sli cly silt No partic structure. HNV = 0.0 Dry to Moi		
	5							12
	9.0	5	6	8		Stiff or-brn to brn v. sdy pebbly silt alt w/ silty mic. m-crs sd w/ qtzite rounded pebbles - stream fill. HNV = 0.0 Moi-Wet		
	10							14
	14.0	8	21	25		Hard or to or-brn mic. silt garnetif. Sap of schist HNV = 0.0 Moi wet		
	15							46
	19.0	8	10	12		V. stff Same, sericite w/ Mn Spots HNV = 0.0 Moi		
	20							22
	24.0	3	5	11		V. stiff same, lt. brn. HNV = 0.1 Moi-wet		
	25							16
	29.0	25/5"				V. hard lt. golden brn sericitic ~~sch~~ silt. Crumbly Sap of schist HNV = 0.0 Moi		
	30							est 60

D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri County Comm Coll: Peachtree County Cherokee Boring # 11 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
						V. hard, same.	
						HNU=0 Moist	
	34.0	3	9	25/3"			
						V. hard, same	
	39.0	25/3"				HNU-0 Moi	
						Hard, same, silvery	
	44.0	15	18	23		HNU=0 Moi	
						Hard, same, silvery-golden brn	
	49.0	21	24	23		HNU=0 Moi	
						V. hard, same	
	54.0	16	25/1"			HNU=0 Moi	
						V. hard, same, some purplish	
	59.0	3	25/3"			colors in silvery laminae	
						HNU=0 Moi to Wet	
						Hard, same, some thin wx qtz	
	64.0	13	17	24		+ Mn.	
						HNU=0 Wet	

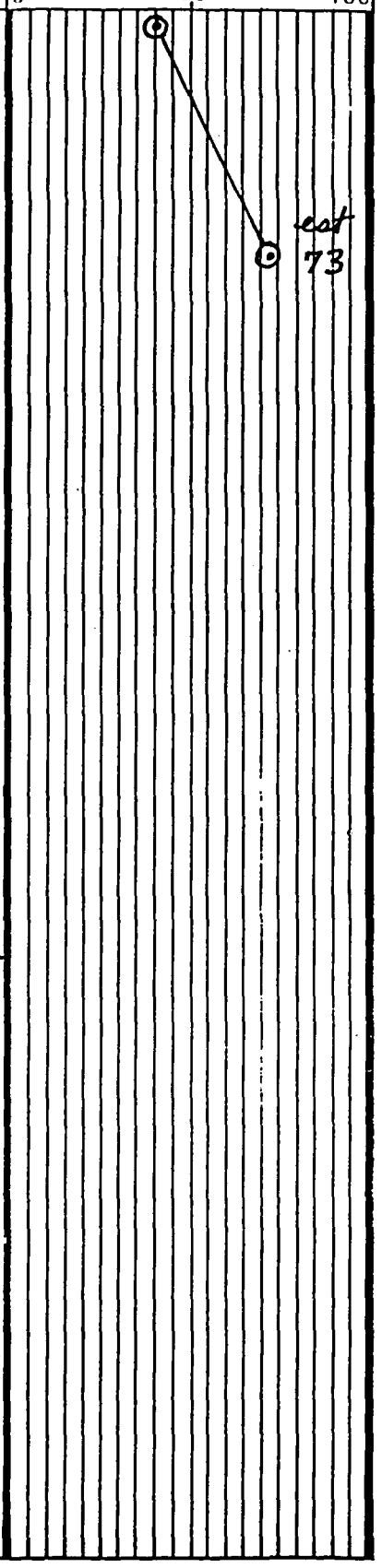


D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri-County Comm Coll: Peachtree County Cherokee Boring # 11 deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
						V. hard same (last split spoon due to lack of pipe)	
	69.0	4	23	25/3"			
	74.0						
	79.0						
						Auger refusal in same at 86.5'	
	84.0						
	86.5						

Standard Penetration B.P.F.
0 50 100



D.E.M.-GROUNDWATER SECTION BORING LOG

Incident # 3371 Project Tri County Comm Coll: Peachtree County Cherokee Region ARO

Boring # 12 dup Date Start 5/14/87 Date Complete 5/14/87 Hydro./Tech. Eskenasy

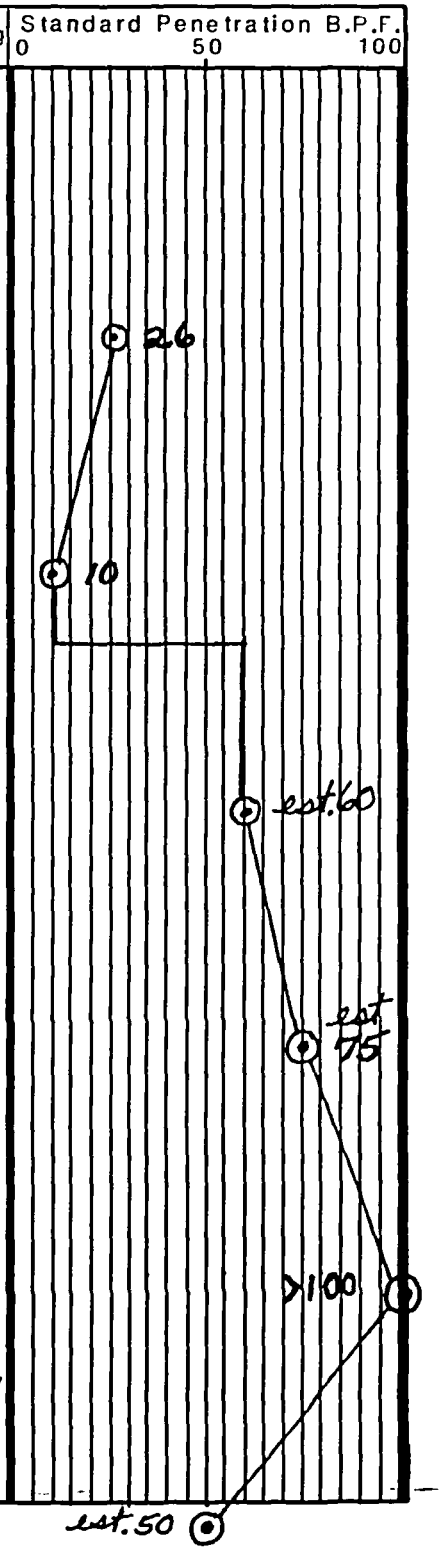
Groundwater: 0 Hours _____ 24 Hours 20.13 Total Depth 36.5 Screen 26.5-36.5

Relative Elevation 978.55 ✓ At. Land Surface (from TOC) / At. Top of Casing Drill.Equipment CME 55 Remarks

TOC = 1.34 Water level below TOC. on June 3, 1987 = 20.16

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log
	1						
						V.stf buff (with red-or streaks + concs.) lam. mic. silt.	
	4.0	4	9	17		Sap. of schist	
	5					HNU = 0 Moi	
						Stiff faintly lam. lt. or-brn mic silt w/ some lt. greenish brownish	
	9.0	3	4	6		gray silt. Sap of schist w/ siltst.	
	10					Vert lam.	
						HNU = 0. Moi	
						V.hard sli. crusty lt. brown-orang-brown vert. lam. mic. silt, some	
	14.0	9	25/5"			or. mottles. Sap of Schist	
	15					HNU = 0 Moi	
						V.hard vert. lam crusty mic	
	19.0	25/4"				sli. or-lt.-brn silt. Sap/PWR of	
	20					schist + Siltstone. Greenish brn	
						at bottom.	
						HNU = 0 Moi	
						V.Hard crunchy greenish-gray	
	24.0	25/4"				vert. lam. mic. schist (PWR)	
	25					HNU = 0	
						Hard alt. well-indurated chunks	
						of greenish mic. silt + rusty-colored	
	29.0	18	20	25/5"		sli. mic. silt (Sap/PWR of siltst +	
	30					schist)	

HNU = .05 - 1.5 Moi



GW-2 Revised 8/86

D.E.M.-GROUNDWATER SECTION BORING LOG
CONTINUATION SHEET

Incident # 3371 Project Tri-County Comm Coll: Peachtree County Cherokee Boring # 12deep

Elev.	Depth	Blow Count 6"	6"	6"	Samp. No.	Description	Log	Standard Penetration B.P.F. 0 50 100
						v. hard Mn-stained dk brn + or. silt, getting more indurated, with chunk		
	34.0	25/4"				of hard schist w/ gneissic looking contact. PWR/Saprolite		
	36.5					of schist		~~est~~ 75
						HNU = 0.0 Moi		
						Auger refusal in Saprolite/PWR of schist at 36.5'		

LABORATORY ANALYSES

COUNTY Cherokee

QUAD NO. T103h10 SERIAL NO. Ce 2385

LAT. 35°03'57" LONG. 83°57'58"

Report to: (ARO), FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

COLLECTOR(S): Minnich DATE 6/19/87 TIME PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST), OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871197

DATE RECEIVED 6-20-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: C CK:

DATE REPORTED: 5/22/87

FIELD ANALYSES

pH_{400} Spec. Cond.$_{94}$ at 25°C

Temp.$_{10}$ °C Odor

Appearance Taste

Field Analysis By:

Owner State of N.C.

Location or site Tri Co. Comm Coll.-Peachtree

Description of sampling point Well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval 55'

Remarks (pumping time, air temp, etc.)

swl= 8.08' 1 deep

LABORATORY ANALYSES

	BOD_5 310	mg/l	dis	Diss. Solids 70300	32	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951		mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l	dis	Hardness:Total 900	6	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml	dis	Hardness (non-carb) 902	<1	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730		ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95		uMhos/cm^2		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945		mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745		mg/l		Fe - Iron 1045	ug/l		
								Hg - Mercury 71900	ug/l		Purgeable Organics (VOA bottle)
✓	pH 403	5.9 units						K - Potassium 937	mg/l		
✓	Alkalinity to pH 4.5 410	10 mg/l						Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
✓	Alkalinity to pH 8.3 415	— mg/l						Mn - Manganese 1055	ug/l		
✓	Carbonate 445	<1 mg/l						Na - Sodium 929	mg/l		
✓	Bicarbonate 440	12 mg/l		NH_3 as N 610		mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625		mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630		mg/l		Se - Selenium 1147	ug/l		
dis	Chloride 940	1 mg/l		P:Total as P 665		mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l									
	Color:True 80	Pt-Co									
	Cyanide 720	mg/l									

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

1 dup

COUNTY Cherokee

QUAD NO. Tusc/Hio SERIAL NO. 62285

LAT. 35 0357 LONG. 83 5758

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): Minnich DATE 7/15/87 TIME 0930 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

LAB NUMBER 8 18933

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: From: Bus-Courier

Other

DATA ENTRY BY: CK:

DATE REPORTED: 7-23-87

FIELD ANALYSES

pH 400 Spec. Cond. 94 at 25°C

Temp. 10 °C Odor

Appearance Taste

Field Analysis By:

Owner State of NC Tri Co Co College

Location or site Franklin

Description of sampling point well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval

Remarks RUSH (Please) Well No. 1d (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

RECEIVED

Groundwater Section
Asheville Regional Office

Lab Comments: The volatile organics detected by GC/Hall/PTD.

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY CHEROKEE

QUAD NO. T10347 SERIAL NO. CE 2379

[redacted] 350358 LONG. 835800

[redacted] ARO, PRO, MRO, RRO, WaRO, WIRO,

[redacted], Kinston FO Other

[redacted]ipped by: Bus, Courier, Other

[redacted]OLLECTOR(S): MINNICK DATE 5/12/87 TIME

N.C. DEPARTMENT OF NATURAL RESOURCES
& COMMUNITY DEVELOPMENT
DEM
GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

2 DEEP

LAB NUMBER 8 1871146

DATE RECEIVED 5-13-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: 8 CK:

DATE REPORTED: 5/14/87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor

Appearance ____ Taste

Field Analysis By:

Owner TRI-Co COMM COL

Location or site PITREE

Description of sampling point WELL HEAD

Sampling Method BAILED (pump, bailer, etc.) Sample Interval 30'

Remarks SWL = 12.52 (pumping time, air temp, etc.)

2 deep

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.8	units
✓	Alkalinity to pH 4.5 410	100	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	130	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
DIS	Chloride 940	5	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

DIS	Diss. Solids 70300	220	mg/l
	Fluoride 951		mg/l
DIS	Hardness:Total 900	47	mg/l
DIS	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 R[redacted]ed 7/85

For Dissolved Analysis - submit fil[redacted] sample and write "DIS" in block
White copy - Headquarters Pink [redacted]py - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T103NW SERIAL NO. C02379

LAT. 350358 LONG. 835800

Report to: (ARO), FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, (Courier), Other

COLLECTOR(S): Minnick DATE 5/12/87 TIME

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 76702

DATE RECEIVED 5/14/87 Time 9:30

Rec'd by: From: Bus-(Courier)

Other

DATA ENTRY BY: CK:

DATE REPORTED: 5-28-87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST), OTHER (circle one)

FIELD ANALYSES

pH_{400} Spec. Cond.$_{94}$ at 25°C

Temp.$_{10}$ °C Odor

Appearance Taste

Field Analysis By:

Owner Tri Co Comm College

Location or site Peachtree

Description of sampling point Well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 30'

Remarks SWL = 12.52 2 deep (pumping time, air temp, etc.) (by hand well)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm^2
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
X	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	SEE ATTACHED ORGANICS ANALYSIS REPORT

JUN 1 1987
GROUND WATER SECTION
RALEIGH, N. C.

Lab Comments:

GW-[illegible] Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by [illegible]

Checked by [illegible]

Supervisor RRK

ORGANIC ANALYSIS

Entered by [illegible]

Checked by [illegible]

Lab No.	Sample Type: 3 Waters Analytical Results	Concentration
79-700	No volatile organics detected by GC/Hall/Pid	
79-701	No volatile organics detected by GC/Hall/Pid	
79-702 2 def	Trichloroethene detected by GC/Hall	2.2 ug/L
	one unidentified Peak detected by GC/Hall	
	No volatile organics detected by GC/Pid	

_____ GC/MS/DS used

COUNTY CHEROKEE

QUAD NO. T103g6 SERIAL NO. CE2378

LAT. 350357 LONG. 835804

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): MINNICK DATE 5/12/87 TIME PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

3 DEEP

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

LAB NUMBER 8 18701144

DATE RECEIVED 5-13-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: 8 CK:

DATE REPORTED: 5/14/87

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor

Appearance ____ Taste

Field Analysis By:

Owner TRI-Co COMM COLL

Location or site P'TREE

Description of sampling point WELL HEAD

Sampling Method BAILER (pump, bailer, etc.) Sample Interval 51.5'

Remarks SWL = 5.78 3 deep (Appearance, odor, temp, etc.)

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.6	units
✓	Alkalinity to pH 4.5 410	20	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	24	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
DIS	Chloride 940	<1	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

DIS	Diss. Solids 70300	42	mg/l
	Fluoride 951		mg/l
DIS	Hardness:Total 900	10	mg/l
DIS	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T10396 SERIAL NO. G2378

LAT. 350357 LONG. 835804

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

LAB NUMBER 8 76700

DATE RECEIVED 5/14/87 Time 9:2

Rec'd by: [illegible] From: Bus-Courier

Other

DATA ENTRY BY: [illegible] CK: [illegible]

DATE REPORTED: 5-28-87

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

COLLECTOR(S): MINNICK DATE 5/12/87 TIME PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

FIELD ANALYSES

pH_{400} Spec. Cond.$_{94}$ at 25°C

Temp.$_{10}$ °C Odor

Appearance Taste

Field Analysis By:

Owner Tri Co. Comm Coll

Location or site Peachtree

Description of sampling point Well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 5/5

Remarks 3 deep (hydrogen) (pumping time, air temp, etc.) SWL = 5.78

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm^2		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	X	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		SEE ATTACHED ORGANICS
	Carbon dioxide 406	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		ANALYSIS REPORT
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

RECEIVED JUN 1 1987 GROUND WATER SECTION RALEIGH, N. C.

JUN 1 1987 Groundwater Section Asheville Regional Office

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by [illegible]

Checked by [illegible]

Supervisor RCK

ORGANIC ANALYSIS

Entered by [illegible]

Checked by [illegible]

Lab No.	Sample Type: 3 Waters Analytical Results	Concentration
79-700	No volatile organics detected by GC/Hall/Pid	
30 left		
79-701	No volatile organics detected by GC/Hall/Pid	
79-702	Trichloroethene detected by GC/Hall	2.2 ug/L
	One unidentified Peak detected by GC/Hall	
	No volatile organics detected by GC/Pid	

_____ GC/MS/DS used

COUNTY: CHEROKEE

QUAD NO. 17039 SERIAL NO. CE 2380

LAT. 350357 LONG. 83 5804

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, [illegible], Kinston FO, Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): MINNICK DATE 8/12/87 TIME

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT
DEM
GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

3 SHALLOW

LAB NUMBER 8 1871145

DATE RECEIVED 8-13-87 Time

Rec'd by: Gwf From: Bus-Courier

Other

DATA ENTRY BY: E CK:

DATE REPORTED: 5/14/87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

Owner: TRI-CO COMM COLL

Location or site: PTREE

Description of sampling point: WELL HEAD

Sampling Method: BAILED (pump, bailer, etc.) Sample Interval: 20'

Remarks: SWL = 5.53' (pumping time, air temp, etc.) 3 shallow

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

LABORATORY ANALYSES

	BOD5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.3	units
✓	Alkalinity to pH 4.5 410	13	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	16	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
DIS	Chloride 940	2	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

DIS	Diss. Solids 70300	45	mg/l
	Fluoride 951		mg/l
DIS	Hardness:Total 900	5	mg/l
DIS	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments: ____

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T10397 SERIAL NO. Co 2380

LAT. 350357 LONG. 835804

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): MINNICK DATE 5/12/87 TIME

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 76701

DATE RECEIVED 5/14/87 Time 9:30

Rec'd by: From: Bus-Courier

Other

DATA ENTRY BY: CK:

DATE REPORTED: 5-28-87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor

Appearance ____ Taste

Field Analysis By:

Owner Tri Co. Comm College

Location or site Peachtree

Description of sampling point well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval 201

Remarks (pumping time, air temp, etc.)

SWL = 5.53 3 shallow by garden

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	X	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		SEE ATTACHED ORGANICS ANALYSIS REPORT
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

JUN 1 1987
GROUND WATER SECTION
RALEIGH, N. C.

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by [illegible]

Checked by [illegible]

Supervisor RCK

ORGANIC ANALYSIS

Entered by [illegible]

Checked by [illegible]

Lab No.	Sample Type: 3 Waters Analytical Results	Concentration
79-700	No volatile organics detected by GC/Hall/Pid	
79-701 3 shallow	No volatile organics detected by GC/Hall/Pid	
79-702	Trichloroethene detected by GC/Hall	2.2 ug/L
	one unidentified Peak detected by GC/Hall	
	No volatile organics detected by GC/Pid	

_____ GC/MS/DS used

COUNTY Cherokee

QUAD NO. T703d10 SERIAL NO. _____

LAT. 350358 LONG. 835802

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other Courier

COLLECTOR(S): Link DATE 5/5/87 TIME 1:30pm PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Pollution (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☐ EMERGENCY

LAB NUMBER 8 1871110

DATE RECEIVED 5-6-87 Time _____

Rec'd by: GWF From: Bus-Courier

Other _____

DATA ENTRY BY: C CK: _____

DATE REPORTED: 5/12/87

DEM Well

FIELD ANALYSES

pH_{400} _____ Spec. Cond.$_{94}$ _____ at 25°C

Temp.$_{10}$ _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri County Community College (Well constructed by DEM)

Location or site Below Sand Filter (Deep Well)

Description of sampling point Well Head

Sampling Method Bailer (pump, bailer, etc.) Sample Interval _____

Remarks Bailed 5 minutes 100-110 bailers full (pumping time, air temp, etc.)

S.W.L. 19.02 below top of casing

Adeep

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
X	pH 403	6.8	units
X	Alkalinity to pH 4.5 410	110	mg/l
X	Alkalinity to pH 8.3 415	—	mg/l
X	Carbonate 445	<1	mg/l
X	Bicarbonate 440	140	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
X	Chloride 940	3	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

X	Diss. Solids 70300	85	mg/l
	Fluoride 951		mg/l
X	Hardness:Total 900	32	mg/l
X	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077		ug/l
	Al - Aluminum 1105		ug/l
	Ba - Barium 1007		ug/l
	Ca - Calcium 916		mg/l
	Cd - Cadmium 1027		ug/l
	Chromium:Total 1034		ug/l
	Cu - Copper 1042		ug/l
	Fe - Iron 1045		ug/l
	Hg - Mercury 71900		ug/l
	K - Potassium 937		mg/l
	Mg - Magnesium 927		mg/l
	Mn - Manganese 1055		ug/l
	Na - Sodium 929		mg/l
	Ni - Nickel 1067		ug/l
	Pb - Lead 1051		ug/l
	Se - Selenium 1147		ug/l
	Zn - Zinc 1092		ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments: _____

GW-54 [illegible] vised 7/85

For Dissolved Analysis - submit [illegible] red sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. F103d10 SERIAL NO. _____

LAT 35°03'58" LONG. 83°58'02"

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 76666

DATE RECEIVED 5/7/87 Time 9:00

Rec'd by: _____ From: Bus Courier

Other _____

DATA ENTRY BY: LM CK: _____

DATE REPORTED: 5-19-87

Report to: ARO FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier Other Courier

COLLECTOR(S): LINK DATE 5/5/87 TIME 1:30pm PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Pollution (circle one)

DEM well INC. No. 337

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C

Temp. 10 _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri-County Community College (Well constructed by DE

Location or site Below Sand Filter (Deep well)

Description of sampling point Well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval _____

Remarks Bailed 5 / min. for 100-110 bailers full (pumping time, air temp, etc.)

S.W.L. 19.02' below top of casing

(2 Bottles taken)

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
✓	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	SEE ATTACHED ORGANICS ANALYSIS REPORT

RECEIVED

MAY 22 1987

Groundwater Section
Asheville Regional Office

Lab Comments: _____

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Two bottles taken

Reported by LM

Checked by ALC

Supervisor REK

Date 3/10/01

ORGANIC ANALYSIS

Entered by LM

Checked by ey

Lab No.	Sample Type : Water Analytical Results	Concentration
7G 666	The following volatile organic was detected	
4 days	by GC/Hall:	
	Trichloroethene	99 ug/l
	One unidentified peak detected by GC/Hall.	
	No volatile organics detected by GC/PID.	

GC/MS/DS used

COUNTY Cherokee

QUAD NO. T103dNE SERIAL NO. _____

LAT 350358 LONG. 835802

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other _____

COLLECTOR(S): LINK DATE 5/5/87 TIME 1:30pm PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Pollution (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 76-6665

DATE RECEIVED 5/7/87 Time 9:00

Rec'd by: _____ From: Bus-Courier

Other _____

DATA ENTRY BY: _____ CK: _____

DATE REPORTED: 5-27-87

INC. No. 3371

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C

Temp. 10 _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri-County Community College (well Cays. by DEM)

Location or site Below Sand Filter (Deep well)

Description of sampling point Well Head

Sampling Method Bailer (pump, bailer, etc.) Sample Interval _____

Remarks Bailed 5 minutes 100-110 bailer full (pumping time, air temp, etc.)

S.W.L. 19.02' below top of casing

H deep

LABORATORY ANALYSES

	BOD_5 310	mg/l	
	COD High 340	mg/l	
	COD Low 335	mg/l	
	Coliform:MF Fecal 31616	/100ml	
	Coliform:MF Total 31504	/100ml	
X	TOC 680 25	mg/l	
	Turbidity 76	NTU	
	pH 403	units	
	Alkalinity to pH 4.5 410	mg/l	
	Alkalinity to pH 8.3 415	mg/l	
	Carbonate 445	mg/l	
	Bicarbonate 440	mg/l	
	Arsenic:Total 1002	ug/l	
	Carbon dioxide 405	mg/l	
	Chloride 940	mg/l	
	Chromium:Hex 1032	ug/l	
	Color:True 80	Pt-Co	
	Cyanide 720	mg/l	

	Diss. Solids 70300	mg/l	
	Fluoride 951	mg/l	
	Hardness:Total 900	mg/l	diss
	Hardness (non-carb) 902	mg/l	diss
	Phenols 32730	ug/l	diss
	Specific Cond. 95	uMhos/cm²	diss
	Sulfate 945	mg/l	diss
	Sulfide 745	mg/l	diss
			diss
			diss
			diss
			diss
			diss
			diss
X	NH_3 as N 610 .05	mg/l	diss
X	TKN as N 625 0.9	mg/l	diss
X	$NO_2 + NO_3$ as N 630 .47	mg/l	diss
X	P:Total as P 665 .20	mg/l	diss

	Ag - Silver 1077	ug/l	
	Al - Aluminum 1105	ug/l	
X	Ba - Barium 1007	ug/l	
X	Ca - Calcium 916	mg/l	
X	Cd - Cadmium 1027	ug/l	
X	Chromium:Total 1034	ug/l	
X	Cu - Copper 1042	ug/l	
X	Fe - Iron 1045	ug/l	
X	Hg - Mercury 71900 *	ug/l	
X	K - Potassium 937	mg/l	
X	Mg - Magnesium 927	mg/l	
X	Mn - Manganese 1055	ug/l	
X	Na - Sodium 929	mg/l	
X	Ni - Nickel 1067	ug/l	
X	Pb - Lead 1051	ug/l	
X	Se - Selenium 1147	ug/l	
X	Zn - Zinc 1092	ug/l	

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
X	Base / Neutral Extractable Organics
X	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	SEE ATTACHED ORGANICS ANALYSIS REPORT

RECEIVED

JUN 2 1987

Groundwater Section
Asheville Regional Office

Lab Comments: * Discard per D. Link

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write 'DIS' in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by MSH

Checked by EEM

Supervisor REK

Date 5/20/87

ORGANIC ANALYSIS

Entered by LM

Checked by PV

Lab No.	Sample Type : water Analytical Results	Concentration
7q1665		
4day	One unidentified peak detected by gc/ms	
	Concentration was estimated as a ratio	
	to a known internal standard	
	pk# 1	14 ug/l

✓ GC/MS/DS used

COUNTY Cherokee

QUAD NO. T703dII SERIAL NO. _____

LAT. 350358 LONG. 835802

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

LAB NUMBER 8 1871109

DATE RECEIVED 5-6-87 Time _____

Rec'd by: bwF From: Bus-Courier

Other _____

DATA ENTRY BY: C CK: _____

DATE REPORTED: 5/12/87

Report to: (ARO), FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, (Courier) Other C

SAMPLE PRIORITY

☐ ROUTINE ☐ EMERGENCY

COLLECTOR(S): LINK DATE 5/5/87 TIME 1:50pm PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER DEM well pollution (circle one)

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C

Temp. 10 _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri-County Community College (well const. by DEM

Location or site Below Sand Filter (Shallow Well)

Description of sampling point Well Head

Sampling Method Bailer (pump, bailer, etc.) Sample Interval _____

Remarks Bailer 20 min. 50-60 bailers full (pumping time, air temp, etc.)

S.W.L. 13.21 below top of casing

4 shallow

LABORATORY ANALYSES

	BOD_5 310	mg/l	
	COD High 340	mg/l	
	COD Low 335	mg/l	
	Coliform:MF Fecal 31616	/100ml	
	Coliform:MF Total 31504	/100ml	
	TOC 680	mg/l	
	Turbidity 76	NTU	
X	pH 403 6.4	units	
X	Alkalinity to pH 4.5 410 200	mg/l	
X	Alkalinity to pH 8.3 415 —	mg/l	
X	Carbonate 445 <1	mg/l	
X	Bicarbonate 440 240	mg/l	
	Arsenic:Total 1002	ug/l	
	Carbon dioxide 405	mg/l	
X	Chloride 940 4	mg/l	
	Chromium:Hex 1032	ug/l	
	Color:True 80	Pt-Co	
	Cyanide 720	mg/l	

X	Diss. Solids 70300 250	mg/l	
	Fluoride 951	mg/l	
X	Hardness:Total 900 200	mg/l	
X	Hardness (non-carb) 902 5	mg/l	
	Phenols 32730	ug/l	
	Specific Cond. 95	uMhos/cm²	
	Sulfate 945	mg/l	
	Sulfide 745	mg/l	
	NH_3 as N 610	mg/l	
	TKN as N 625	mg/l	
	$NO_2 + NO_3$ as N 630	mg/l	
	P:Total as P 665	mg/l	

	Ag - Silver 1077	ug/l	
	Al - Aluminum 1105	ug/l	
	Ba - Barium 1007	ug/l	
	Ca - Calcium 916	mg/l	
	Cd - Cadmium 1027	ug/l	
	Chromium:Total 1034	ug/l	
	Cu - Copper 1042	ug/l	
	Fe - Iron 1045	ug/l	
	Hg - Mercury 71900	ug/l	
	K - Potassium 937	mg/l	
	Mg - Magnesium 927	mg/l	
	Mn - Manganese 1055	ug/l	
	Na - Sodium 929	mg/l	
	Ni - Nickel 1067	ug/l	
	Pb - Lead 1051	ug/l	
	Se - Selenium 1147	ug/l	
	Zn - Zinc 1092	ug/l	

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments: _____

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T103dII SERIAL NO. _____

LAT. 350358 LONG. 835802

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, (Courier) Other _____

COLLECTOR(S): Link DATE 5/5/87 TIME 1:50

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 7G-662

DATE RECEIVED 5/7/87 Time 9:00

Rec'd by: [illegible] From: Bus (Courier)

Other _____

DATA ENTRY BY: Bm CK: Dlm

DATE REPORTED: 5-27-87

INC. No. 3371

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Pollution (circle one)

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C

Temp. 10 _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri-County Community College (well const. by DEM)

Location or site Below Sand Filter (Shallow Well)

Description of sampling point Well head

Sampling Method Bailer (pump, bailer, etc.) Sample Interval _____

Remarks Bailed 20 min. approx 50-60 Bailers full (pumping time, air temp, etc.)

4-Shallow

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
X	TOC 680 32	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
X	NH_3 as N 610 .59	mg/l
X	TKN as N 625 1.0	mg/l
X	$NO_2 + NO_3$ as N 630 .27	mg/l
X	P:Total as P 665 .08	mg/l

		Ag - Silver 1077	ug/l
		Al - Aluminum 1105	ug/l
X	diss	Ba - Barium 1007	ug/l
X	diss	Ca - Calcium 916	mg/l
X	diss	Cd - Cadmium 1027	ug/l
X	diss	Chromium:Total 1034	ug/l
X	diss	Cu - Copper 1042	ug/l
X	diss	Fe - Iron 1045	ug/l
X	diss	Hg - Mercury 71900 *	ug/l
X	diss	K - Potassium 937	mg/l
X	diss	Mg - Magnesium 927	mg/l
X	diss	Mn - Manganese 1055	ug/l
X	diss	Na - Sodium 929	mg/l
X	diss	Ni - Nickel 1067	ug/l
X	diss	Pb - Lead 1051	ug/l
X	diss	Se - Selenium 1147	ug/l
X	diss	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
X	Base / Neutral Extractable Organics
X	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	SEE ATTACHED ORGANICS ANALYSIS REPORT

RECEIVED JUN 2 1987 Groundwater Section Asheville Regional Office

Lab Comments: * Discard per D. Link

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by MSH

Checked by EEM

Supervisor REK

Date 5/20/87

ORGANIC ANALYSIS

Entered by LM

Checked by PV

Lab No.	Sample Type : water Analytical Results	Concentration
7g 662		
	Two unidentified peaks detected by	
4 Shallow	GC/MS Concentrations were estimated as	ug/l
	a ratio to a known internal standard	
	pk #1	74
	2	39

✓ GC/MS/DS used

4 Shallow

COUNTY Cherokee

QUAD NO. T103dII SERIAL NO. _____

LAT. 35 0358 LONG. 83 5862

Report to: (ARO), FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other _____

COLLECTOR(S): Lint DATE 5/5/87 TIME 1:50pm

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

LAB NUMBER 8 11063

DATE RECEIVED 5/7/87 Time 9 00

Rec'd by: _____ From: Bus-Courier

Other _____

DATA ENTRY BY: _____ CK: _____

DATE REPORTED: 7-28-87

Inv. No. 337

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER pollution (circle one)

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C

Temp. 10 _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri-County Community College - Cullowhee

Location or site Below Sand Filter (Shallow)

Description of sampling point Well Head

Sampling Method Bailing (pump, bailer, etc.) Sample Interval _____

Remarks Bailed 20 min 50-66 Bailers Fell (pumping time, air temp, etc.)

S.W.L. 13.21' below Top of Casing

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides (4 Shallow)
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
SS. X	TOC 680 <5	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l		Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments: _____

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T03SW SERIAL NO. _____

LAT. 35°03'58" LONG. 83°58'02"

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other Courier

COLLECTOR(S): LINK DATE 5/5/87 TIME 1:50pm

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

Rush

LAB NUMBER 8 76664

DATE RECEIVED 5/7/87 Time 9:00

Rec'd by: _____ From: Bus-Courier

Other _____

DATA ENTRY BY: LM CK: _____

DATE REPORTED: 5-19-87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one) DEM well Pollution Inc. No. 3371

FIELD ANALYSES

pH 400 _____ Spec. Cond. 94 _____ at 25°C

Temp. 10 _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri-County Community College (Well constructed by DEM)

Location or site Below Sand Filter (Shallow Well)

Description of sampling point Well Head

Sampling Method Bailer (pump, bailer, etc.) Sample Interval _____

Remarks Bailed 20 min approx 50-60 bailers full (pumping time, air temp, etc.)
S.W.L. 13.21' below top of casing

Shallow

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
✓	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	SEE ATTACHED ORGANICS ANALYSIS REPORT

RECEIVED
MAY 22 1987
Groundwater Section
Asheville Regional Office

Lab Comments: _____

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by LMI

Date 3/10/01

Checked by ALC

ORGANIC ANALYSIS

Supervisor REK

Entered by LM

Checked by ell

Lab No.	Sample Type: Water Analytical Results	Concentration
7G664	The following volatile organics were detected	
4 Shallow	by GC/Hall:	
	1,1,1-Trichloroethane	1.1 ug/l
	Trichloroethene	13 ug/l
	Three unidentified peaks detected by GC/Hall.	
	No volatile organics detected by GC/PID.	

_____ GC/MS/DS used

COUNTY Cherokee

QUAD NO. T039 SERIAL NO. C 2388

LAT. 350359 LONG. 835804

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other Hand

COLLECTOR(S): Eshenaur DATE 5/26/87 TIME 6:20 pm PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (UST) OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

LAB NUMBER 8 1871241

DATE RECEIVED 5-27-87 Time

Rec'd by: lowf From: Bus-Courier

Other

DATA ENTRY BY: l CK:

DATE REPORTED: 6/28/87

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of N.C.

Location or site Tri Co Community College - Peachtree

Description of sampling point well Head

Sampling Method bailed (pump, bailer, etc.) Sample Interval 77'

Remarks 5 deep (100 bails) (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.9	units
✓	Alkalinity to pH 4.5 410	29	mg/l
✓	Alkalinity to pH 8.3 415	–	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	35	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
dis	Chloride 940	4	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

* dis	Diss. Solids 70300	36	mg/l
	Fluoride 951		mg/l
dis	Hardness:Total 900	17	mg/l
dis	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

deep

COUNTY Cherokee

QUAD NO. F1078 SERIAL NO. Ce2388

LAT. 35 0359 LONG. 83 5802

Report to: ARO, FRO, MRO, RRO, WaRO, WIRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier Other

COLLECTOR(S): Lish DATE 7/15/87 TIME 1030 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 7G934

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: Jg From: Bus Courier

Other

DATA ENTRY BY: Bm CK: DM

DATE REPORTED: 7-23-87

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner: Tri County Comm College

Location or site: Cherokee

Description of sampling point: well head

Sampling Method: bailer (pump, bailer, etc.) Sample Interval ____

Remarks: Rush Please (pumping time, air temp, etc.) 5 deep

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides	
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides	
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l			
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides	
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l			
	TOC 680	mg/l		Specific Cond. 95	$uMhos/cm^2$		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics	
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics	
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l			
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)	
	pH 403	units					K - Potassium 937	mg/l			
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)	
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l			
	Carbonate 445	mg/l					Na - Sodium 929	mg/l			
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l			
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		SEE ATTACHED ORGANICS	
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		ANALYSIS REPORT	
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l			
	Chromium:Hex 1032	ug/l									
	Color:True 80	Pt-Co								RECEIVED	
	Cyanide 720	mg/l								G. Water Quality Section	

Lab Comments:

JUL 27 1987

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Asheville Regional Office
Asheville, North Carolina

Checked by CW

Supervisor REK

ORGANIC ANALYSIS

Entered by [illegible]

Checked by [illegible]

Lab No.	Sample Type : Water Analytical Results	Concentration
79 934	1,1,1-Trichloroethane	5.4 ug/l
5 day	Trichloroethene	130 ug/l
	detected by GC/Hall.	
	Two unidentified peaks detected by GC/Hall.	
	No volatile organics detected by GC/PID.	

Reported by CW

Date 7/22/87

Checked by LM

Supervisor REK

ORGANIC ANALYSIS

Entered by [illegible]

Checked by _____

Lab No.	Sample Type : water Analytical Results	Concentration
76-935	trichloroethene	1000 ug/l
	tetrachloroethene	0.22 ug/l
	1,1,1 trichloroethane	6.1 ug/l
	1,1 dichloroethane	0.08 ug/l
	detected by GC/Hall	
	Four unidentified peaks detected	
	by GC/Hall	
	No volatile organics detected by	
	GC/PID.	

COUNTY Cherokee

QUAD NO. T10399 SERIAL NO. Ce 2389

LAT. 350359 LONG. 835804

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

COLLECTOR(S): Eshenaur DATE 5/26/87 TIME 5:30 pm PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST), OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871240

DATE RECEIVED 5-27-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: E CK:

DATE REPORTED: 1/28/87

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of N.C.

Location or site Tri Co CoCo - Peachtree

Description of sampling point Well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval 16'

Remarks 5 shallow (pumping time, air temp, etc.) (50 bails)

LABORATORY ANALYSES

	BOD_5 310		mg/l	*	dis	Diss. Solids 70300	58	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340		mg/l			Fluoride 951		mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335		mg/l		dis	Hardness:Total 900	24	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616		/100ml		dis	Hardness (non-carb) 902	<1	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504		/100ml			Phenols 32730		ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680		mg/l			Specific Cond. 95		uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76		NTU			Sulfate 945		mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
						Sulfide 745		mg/l		Fe - Iron 1045	ug/l		
										Hg - Mercury 71900	ug/l		Purgeable Organics (VOA bottle)
✓	pH 403	5.6	units							K - Potassium 937	mg/l		
✓	Alkalinity to pH 4.5 410	25	mg/l							Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
✓	Alkalinity to pH 8.3 415	—	mg/l							Mn - Manganese 1055	ug/l		
✓	Carbonate 445	<1	mg/l							Na - Sodium 929	mg/l		
✓	Bicarbonate 440	30	mg/l			NH_3 as N 610		mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002		ug/l			TKN as N 625		mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405		mg/l			$NO_2 + NO_3$ as N 630		mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	9	mg/l			P:Total as P 665		mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032		ug/l										
	Color:True 80		Pt-Co										
	Cyanide 720		mg/l										

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T103g SERIAL NO. G2389

LAT. 350359 LONG. 835802

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): Link DATE 7/15/87 TIME 1000

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 7G935

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: From: Bus-Courier

Other

DATA ENTRY BY: CK:

DATE REPORTED: 7-23-87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

FIELD ANALYSES

pH_{400} Spec. Cond.$_{94}$ at 25°C

Temp.$_{10}$ °C Odor

Appearance Taste

Field Analysis By:

Owner State of NC Tri Co Cc. College

Location or site Reachtree

Description of sampling point well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval

Remarks RUSH (Please) (pumping time, air temp, etc.) 5 shallow

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm^2
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
✓	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	SEE ATTACHED ORGANICS ANALYSIS REPORT

RECEIVED

JUL 27 1987

Groundwater Section
Asheville Regional Office

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

Checked by CW

Supervisor REK

ORGANIC ANALYSIS

Entered by BM

Checked by DM

Lab No.	Sample Type : Water Analytical Results	Concentration
7g 934	1,1,1-Trichloroethane	5.4 ug/l
	Trichloroethene	130 ug/l
	detected by GC/Hall.	
	Two unidentified peaks detected by GC/Hall.	
	No volatile organics detected by GC/PID.	

Reported by CW

Date 7/22/87

Checked by LM

Supervisor REK

ORGANIC ANALYSIS

Entered by BM

Checked by _____

Lab No.	Sample Type : water Analytical Results	Concentration
7G-935 5 shallow	trichloroethene	1000 ug/l
	tetrachloroethene	0.22 ug/l
	1,1,1 trichloroethane	6.1 ug/l
	1,1 dichloroethane	0.08 ug/l
	detected by GC/Hall	
	Four unidentified peaks detected	
	by GC/Hall	
	No volatile organics detected by	
	GC/PID.	

COUNTY Cherokee

QUAD NO. T103h9 SERIAL NO. G 2382

LAT. 35°03'59" LONG. 83°58'00"

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

COLLECTOR(S): Minnick DATE 5/19/87 TIME

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871196

DATE RECEIVED 5-20-87 Time

Rec'd by: bwf From: Bus-Courier

Other

DATA ENTRY BY: C CK:

DATE REPORTED: 1/22/87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST) OTHER (circle one)

FIELD ANALYSES

pH_{400} ____ Spec. Cond.$_{94}$ ____ at 25°C

Temp.$_{10}$ ____ °C Odor

Appearance ____ Taste

Field Analysis By:

Owner State of N.C.

Location or site Tri-Co. Comm. Coll - Peachtree

Description of sampling point well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 36.5

Remarks SWL = 16.40' 6 deep (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	6.0	units
✓	Alkalinity to pH 4.5 410	24	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	29	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
dis	Chloride 940	4	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

dis	Diss. Solids 70300	47	mg/l
	Fluoride 951		mg/l
dis	Hardness:Total 900	8	mg/l
dis	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

6 deep

COUNTY [illegible]

QUAD NO. [illegible] SERIAL NO. [illegible]

LAT. 350357 LONG. [illegible]

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☐ EMERGENCY

LAB NUMBER 8 [illegible]

DATE RECEIVED [illegible] Time [illegible]

Rec'd by: [illegible] From: Bus-Courier

Other

DATA ENTRY BY: CK:

DATE REPORTED:

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): [illegible] DATE 7/15/87 TIME [illegible] PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

State of NC

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor

Appearance ____ Taste

Field Analysis By:

Owner [illegible]

Location or site [illegible]

Description of sampling point [illegible]

Sampling Method [illegible] (pump, bailer, etc.) Sample Interval

Remarks (pumping time, air temp, etc.)

(Rush) (Please)

6 deep

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		SEE ATTACHED ORGANICS ANALYSIS REPORT
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

RECEIVED
G. Water Quality Section
JUL 27 1987

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by CW

Checked by LM

Supervisor REK

Date 4/24/01

ORGANIC ANALYSIS

Entered by BM

Checked by DM

Lab No.	Sample Type : water Analytical Results	Concentration
76-936	trichloroethene detected by GC/Hall	8 ug/l
	No volatile organics detected by GC/PID	
76-937	trichloroethene detected by GC/Hall	7.0 ug/l
	No volatile organics detected by GC/PID	
76-938	No volatile organics detected by GC/Hall	
	One unidentified peak detected by GC/PID	
	Methyl Isobutyl Ketone detected by GC/PID	33 ug/l

6 day

6 day

_____ GC/MS/DS used

COUNTY CHEROKEE

QUAD NO. T103H8 SERIAL NO. CE 2381

LAT. 350359 LONG. 835800

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): MINNICK DATE 5/12/87 TIME PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

6 SHALLOW

LAB NUMBER 8 1871147

DATE RECEIVED 5-13-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: E CK:

DATE REPORTED: 5/14/87

FIELD ANALYSES

pH_{400} Spec. Cond.$_{94}$ at 25°C

Temp.$_{10}$ °C Odor

Appearance Taste

Field Analysis By:

Owner TRI-CO COMM COLL

Location or site P'TREE

Description of sampling point WELL HEAD

Sampling Method BAILED (pump, bailer, etc.) Sample Interval 291

Remarks SWL = 16.05' (pumping time, air temp, etc.) 6 Shallow

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.3	units
✓	Alkalinity to pH 4.5 410	14	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	21	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
DIS	Chloride 940	4	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

DIS	Diss. Solids 70300	50	mg/l
	Fluoride 951		mg/l
DIS	Hardness:Total 900	8	mg/l
DIS	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. I103h8 SERIAL NO. Cc 2381

LAT. 350359 LONG. 835800

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

LAB NUMBER 8 7G 703

DATE RECEIVED 5/14/87 Time 9:30

Rec'd by: [illegible] From: Bus, Courier

Other

DATA ENTRY BY: [illegible] CK:

DATE REPORTED: 6-1-87

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

COLLECTOR(S): MINNICK DATE 5/12/87 TIME PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

FIELD ANALYSES

pH_{400} Spec. Cond.$_{94}$ at 25°C

Temp.$_{10}$ °C Odor

Appearance Taste

Field Analysis By:

Owner Tri Co Comm College

Location or site Peachtree

Description of sampling point well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 29'

Remarks (pumping time, air temp, etc.)

SWL = 16.05' 6 shallow (by water tower)

Shallow

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
X	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	~~SEE ATTACHED ORGANICS ANALYSIS REPORT~~

RECEIVED

JUN 2 1987

Groundwater Section
Asheville Regional Office

Lab Comments:

DS

GW-[illegible] Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by MLS

Checked by STB

Supervisor REK

Date 6/1/87

ORGANIC ANALYSIS

Entered by BM

Checked by _____

Lab No.	Sample Type: Water Analytical Results	Concentration
76703	No volatile organics identified by	
6shallow	GC/PID — One unidentified peak	
	detected	
	Trichloroethene	5.6µg/L
	One unidentified peak	
	-detected by GC/Hall	

_____ GC/MS/DS used

COUNTY Cherokee

QUAD NO. T103dNE SERIAL NO. G 2383

LAT. 35 04 01 LONG. 83 58 01

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other Hand

COLLECTOR(S): Minnich DATE 6/19/87 TIME PURPOSE: BASELINE, COMPLIANCE, COMPLIANCE, LUST, OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871193

DATE RECEIVED 5-20-87 Time

Rec'd by: CWF From: Bus-Courier

Other

DATA ENTRY BY: 8 CK:

DATE REPORTED: 5/22/87

FIELD ANALYSES

pH_{400} Spec. Cond.$_{94}$ at 25°C

Temp.$_{10}$ °C Odor

Appearance Taste

Field Analysis By:

Owner State of NC

Location or site Tri-Co-Comm. Coll - Peachtree

Description of sampling point Well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 40'

Remarks SWL = 14.33' (pumping time, air temp, etc.)

7 deep

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.9	units
✓	Alkalinity to pH 4.5 410	25	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	30	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
dis	Chloride 940	7	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

dis	Diss. Solids 70300	140	mg/l
	Fluoride 951		mg/l
dis	Hardness:Total 900	17	mg/l
dis	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. 7103d12 SERIAL NO. 62383

LAT. 350401 LONG. 0835601

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): [illegible] DATE 7/15/87 TIME 1100 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 7G937

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: [illegible] From: Bus, Courier

Other

DATA ENTRY BY: CK:

DATE REPORTED: 7-23-87

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor

Appearance ____ Taste

Field Analysis By:

State of NC

Owner Tri County Comm College

Location or site Peachtree

Description of sampling point well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval

Remarks Rush Clear (pumping time, air temp, etc.)

7 deep

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm²
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
✓	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	SEE ATTACHED ORGANICS ANALYSIS REPORT

RECEIVED
Water Quality Section
JUL 27 1987

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Asheville Regional Office
Asheville, North Carolina

Reported by Cw

Checked by LM

Supervisor REK

Date 1/24/01

ORGANIC ANALYSIS

Entered by Bm

Checked by DM

Lab No.	Sample Type : water Analytical Results	Concentration
76-936	trichloroethene detected by GC/Hall	8 ug/l
	No volatile organics detected by GC/PID	
76-937	trichloroethene detected by GC/Hall	7.0 ug/l
	No volatile organics detected by GC/PID	
76-938	No volatile organics detected by GC/Hall	
	One unidentified peak detected by GC/PID	
	Methyl Isobutyl ketone detected by GC/PID	33 ug/l

7 dup

7 dup

_____ GC/MS/DS used

COUNTY Cherokee

QUAD NO. T1038 SERIAL NO. _____

LAT. 350401 LONG. 835802
350401 835802

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other _____

COLLECTOR(S): Eckenroy + Howard DATE 4/29/87 TIME 1500 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER _____ (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 7G638

DATE RECEIVED 5-1-87 Time 8:00

Rec'd by: _____ From: Bus Courier

Other _____

DATA ENTRY BY: DW CK: LM

DATE REPORTED: 5-6-87

FIELD ANALYSES

pH_{400} _____ Spec. Cond.$_{94}$ _____ at 25°C

Temp.$_{10}$ _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri County Community College

Location of site ~~Court House~~ TENNIS Mon well #8 deep

Description of sampling point well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval 55'

Remarks bailed 1½ hr (pumping time, air temp, etc.)

8 deep

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		SEE ATTACHED ORGANICS ANALYSIS REPORT
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments: _____

RECEIVED
MAY 11 1987
Groundwater Section
Asheville Regional Office

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by LM

Date 5/4/87

Checked by ALC

ORGANIC ANALYSIS

Supervisor REK

Entered by [illegible]

Checked by LM

Lab No.	Sample Type : Water Analytical Results	Concentration
TG 638	The following volatile organic was detected by GC/Hall:	
8 deep	Trichloroethene	1.7 ug/l
	No volatile organics detected by GC/PID.	

Reported by LM

Date 5/6/87

Checked by ALC

ORGANIC ANALYSIS

Supervisor REK

Entered by [illegible]

Checked by

Lab No.	Sample Type : Water Analytical Results	Concentration
[illegible]G 639	The following volatile organic was detected	
	by GC/Hall:	
	Trichloroethene	0.11 ug/l
	Two unidentified peaks detected by GC/Hall.	
	No volatile organics detected by GC/PID.	

COUNTY Cherokee

QUAD NO. TN-19 SERIAL NO. _____

LAT. 35°04'11" LONG. 83°58'02"

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other _____

COLLECTOR(S): Pshenasnyt Dorsau DATE 4/29/87 TIME 1500 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER _____ (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 7G 639

DATE RECEIVED 5-1-87 Time 8:00

Rec'd by: _____ From: Bus, Courier

Other _____

DATA ENTRY BY: _____ CK: LM

DATE REPORTED: 5-6-87

FIELD ANALYSES

pH_{400} _____ Spec. Cond.$_{94}$ _____ at 25°C

Temp.$_{10}$ _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner Tri County Community

Location or site Tennis Courts 8 Shallow

Description of sampling point ~~bottom~~ well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval 4-12'

Remarks bailed ~1 hour (pumping time, air temp, etc.)

8 Shallow

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm^2		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		SEE ATTACHED ORGANICS ANALYSIS REPORT
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments: _____

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by LM

Date 5/6/87

Checked by ALC

ORGANIC ANALYSIS

Supervisor REK

Entered by [illegible]

Checked by LM

Lab No.	Sample Type : Water Analytical Results	Concentration
TG 638	The following volatile organic was detected by GC/Hall:	
	Trichloroethene	1.7 ug/l
	No volatile organics detected by GC/PID.	

Reported by LM

Date 5/6/87

Checked by ALC

ORGANIC ANALYSIS

Supervisor REK

Entered by [illegible]

Checked by

Lab No.	Sample Type : Water Analytical Results	Concentration
TG 639	The following volatile organic was detected	
8 shallow	by GC/Hall:	
	Trichloroethene	0.11 ug/l
	Two unidentified peaks detected by GC/Hall.	
	No volatile organics detected by GC/PID.	

COUNTY Cherokee

QUAD NO. T103 C34 SERIAL NO. Ce 2384

LAT. 350404 LONG. 835757

Report to: ABO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

COLLECTOR(S): Etheridge DATE 5/26 TIME 4:00

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871243

DATE RECEIVED 5-27-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: C CK:

DATE REPORTED: 5/28/87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST), OTHER (circle one)

FIELD ANALYSES

pH_{400} ____ Spec. Cond.$_{94}$ ____ at 25°C

Temp.$_{10}$ ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC

Location or site Thi CoCoCo Reactor

Description of sampling point Well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval 7'11

Remarks 9 deep 58 bags + building (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	7.1	units
✓	Alkalinity to pH 4.5 410	45	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	42	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
dis	Chloride 940	2	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

* dis	Diss. Solids 70300	53	mg/l
	Fluoride 951		mg/l
dis	Hardness:Total 900	12	mg/l
dis	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herbicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

Dell

COUNTY Cherokee

QUAD NO. 403 C34 SERIAL NO. Ca 2384

LAT. 35 0404 LONG. 83 5757

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): Lirk DATE 7/15/87 TIME 1330

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 76939

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: From: Bus-Courier

Other

DATA ENTRY BY: CK: DM

DATE REPORTED: 7-23-87

PURPOSE: BASELINE, COMPLIANCE, COMPLAINT, LUST, OTHER (circle one)

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC - Tri County Comm College

Location or site Hiawatha

Description of sampling point well head

Sampling Method Bailer (pump, bailer, etc.) Sample Interval ____

Remarks Rush (Klass) 9 deep (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herbicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

RECEIVED
G.G. Water Quality Section
JUL 27 1987
Asheville Regional Office
Asheville, North Carolina

Lab Comments: No volatile organics detected by GC/Hall/PID.

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pi copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T103C36 SERIAL NO. Ce 2408

LAT. 350404 LONG. 835757

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

COLLECTOR(S): Eshenasy DATE 5/26 TIME 4:00

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871242

DATE RECEIVED 5-27-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: E CK:

DATE REPORTED: 5/28/87

PURPOSE: BASELINE, COMPLIANCE, (LUST) OTHER (circle one)

FIELD ANALYSES

pH_{400} ____ Spec. Cond.$_{94}$ ____ at 25°C

Temp.$_{10}$ ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC

Location or site Tri CoCoCo

Description of sampling point well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 19'

Remarks 5 bails to dry 9 shallow (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310	mg/l	*	dis	Diss. Solids 70300 380	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l			Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		dis	Hardness:Total 900 25	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		dis	Hardness (non-carb) 902 <1	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml			Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l			Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU			Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
					Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
								Hg - Mercury 71900	ug/l		Purgeable Organics (VOA bottle)
✓	pH 403 7.2	units						K - Potassium 937	mg/l		
✓	Alkalinity to pH 4.5 410 52	mg/l						Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
✓	Alkalinity to pH 8.3 415 —	mg/l						Mn - Manganese 1055	ug/l		
✓	Carbonate 445 <1	mg/l						Na - Sodium 929	mg/l		
✓	Bicarbonate 440 64	mg/l			NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l			TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l			$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
dis	Chloride 940 4	mg/l			P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l									
	Color:True 80	Pt-Co									
	Cyanide 720	mg/l									

Lab Comments:

GW-54 Rev[illegible]d 7/85

For Dissolved Analysis - submit filt[illegible] sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT
DEM
GROUNDWATER FIELD/LAB FORM

COUNTY Cherokee
QUAD NO. F103C36 SERIAL NO. Se2403
LAT. 35 04 04 LONG. 83 57 57

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

SAMPLE PRIORITY
☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 7695
DATE RECEIVED 7-17-87 Time 10:00
Rec'd by: From: Bus-Courier
Other
DATA ENTRY BY: CK: DM
DATE REPORTED: 7-23-87

COLLECTOR(S): Rehmann DATE 7/15/87 TIME 1330 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C
Temp. 10 ____ °C Odor
Appearance ____ Taste
Field Analysis By:

Other State of NC-Tri County Comm College
Location or site Franklin
Description of sampling point well head
Sampling Method bailed (pump, bailer, etc.) Sample Interval
Remarks (pumping time, air temp, etc.)
Rush Clear
9 Shallow

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		SEE ATTACHED ORGANICS ANALYSIS REPORT
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

RECEIVED
Gr Water Quality Section
JUL 27 1987
Asheville Regional Office
Asheville, North Carolina

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by CW

Checked by LM

Supervisor REK

Date 11/4/01

ORGANIC ANALYSIS

Entered by BM

Checked by DM

Lab No.	Sample Type : water Analytical Results	Concentration
76-936	trichloroethene detected by GC/Hall	8.0 ug/l
	No volatile organics detected by GC/PID	
76-937	trichloroethene detected by GC/Hall	7.0 ug/l
	No volatile organics detected by GC/PID	
76-938 9 shallow	No volatile organics detected by GC/Hall	
	One unidentified peak detected by GC/PID	
	Methyl Isobutyl ketone detected by GC/PID	33 ug/l

_____ GC/MS/DS used

COUNTY Cherokee

QUAD NO. T103d13 SERIAL NO. Ce 2386

LAT. 35°04'07" LONG. 83°58'00"

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

COLLECTOR(S): Minnich DATE 5/19/87 TIME PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST), OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871194

DATE RECEIVED 5-20-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: Ca CK:

DATE REPORTED: 5/22/87

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor

Appearance ____ Taste

Field Analysis By:

Owner State of N.C.

Location or site Sal Co. Co. Co. Peachtree

Description of sampling point well

Sampling Method well head (pump, bailer, etc.) Sample Interval 55'

Remarks bailed 10 deep swl = 36.06 (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.5	units
✓	Alkalinity to pH 4.5 410	9	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	11	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
dis	Chloride 940	1	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

dis	Diss. Solids 70300	29	mg/l
	Fluoride 951		mg/l
dis	Hardness:Total 900	3	mg/l
dis	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Re[illegible]d 7/85

For Dissolved Analysis - submit filte[illegible] sample and write "DIS" in block

White copy - Headquarters Pink [illegible]y - Region Yellow copy - Lab

10 deep

COUNTY Cherokee

QUAD NO. H03d13 SERIAL NO. G 2386

LAT. 35 04 07 LONG. 83 58 00

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): Thomas DATE 7/15/87 TIME 1230 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 7G940

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: From: Bus-Courier

Other

DATA ENTRY BY: CK: DM

DATE REPORTED: 7-23-87

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC - Tri Co Co College

Location or site Peachtree

Description of sampling point well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval ____

Remarks Rush Please (pumping time, air temp, etc.)

10 deep

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

RECEIVED
Water Quality Section
JUL 27 1987
Asheville Regional Office
Asheville, North Carolina

Lab Comments: No volatile organics detected by GC/Hall/PID.

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T103dS SERIAL NO. Co 2390

LAT. 350407 LONG. 835800

N.C. DEPARTMENT OF NATURAL RESOURCES
& COMMUNITY DEVELOPMENT
DEM
GROUNDWATER FIELD/LAB FORM

LAB NUMBER 8 1871244

DATE RECEIVED 5-27-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: E CK:

DATE REPORTED: 5/28/87

Report to: (ARO), FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

COLLECTOR(S): Eshenaur DATE 5/27/87 TIME 9:30 am PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST), OTHER (circle one)

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC

Location or site Tri Cola Co. - Peachtree

Description of sampling point Well Head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 38'

Remarks 10 shallow (pumping time, air temp, etc.) 20 bails, dry

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.6	units
✓	Alkalinity to pH 4.5 410	4	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	5	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
du	Chloride 940	3	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

* du	Diss. Solids 70300	32	mg/l
	Fluoride 951		mg/l
du	Hardness:Total 900	10	mg/l
du	Hardness (non-carb) 902	6	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

10 shallow

COUNTY Cherokee

QUAD NO. F103dis SERIAL NO. G2390

LAT. 350407 LONG. 835800

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

LAB NUMBER 8 7G 941

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: [illegible] From: Bus Courier

Other

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus Courier, Other

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

DATA ENTRY BY: [illegible] CK: DM

DATE REPORTED: 7-23-87

COLLECTOR(S): Rush DATE 7/15/87 TIME 1230 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC - Tri Co. Co. College

Location or site Peachtree

Description of sampling point well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval ____

Remarks Rush (Rhoe) (pumping time, air temp, etc.) 10 shallow

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

RECEIVED
G. Water Quality Section
JUL 27 1987
Asheville Regional Office
Asheville, North Carolina

Lab Comments: No volatile organics detected by G.C. / Hall / P.I.D.

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. 103C33 SERIAL NO. G 2377

LAT. 350409 LONG. 835757

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

COLLECTOR(S): Minnick DATE 5/19/87 TIME PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871192

DATE RECEIVED 5-20-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: CK:

DATE REPORTED: 5/22/87

FIELD ANALYSES

pH 400 Spec. Cond. 94 at 25°C

Temp. 10 °C Odor

Appearance Taste

Field Analysis By:

Owner Tri Co Comm Coll

Location or site Peachtree

Description of sampling point Well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 86.5

Remarks 11 deep SWL = 21.64 (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	6.7	units
✓	Alkalinity to pH 4.5 410	41	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	50	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
dis	Chloride 940	3	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

dis	Diss. Solids 70300	90	mg/l
	Fluoride 951		mg/l
dis	Hardness:Total 900	27	mg/l
dis	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

deep

COUNTY Cherokee

QUAD NO. ~~H03C33~~ SERIAL NO. Ce 2377

LAT. 35 04 09 LONG. 83 57 57

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other

COLLECTOR(S): Etheridge DATE 7/15/87 TIME 1130 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 76942

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: TO From: Bus-Courier

Other

DATA ENTRY BY: CK:

DATE REPORTED: 7-27-87

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC - Tri Co Co College

Location or site Peachtree

Description of sampling point well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval 11 deep

Remarks (pumping time, air temp, etc.)

Please Rush 2 bottles because pretty muddy

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm²		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle) (2 samples)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		SEE ATTACHED ORGANICS ANALYSIS REPORT
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

Lab Comments:

RECEIVED JUL 28 1987 Groundwater Section Asheville Regional Office

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by CW

Checked by LM

Supervisor REK

ORGANIC ANALYSIS

Entered by BM

Checked by DM

1/21/81

Lab No.	Sample Type: Water Analytical Results	Concentration
76-942 11dep	No volatile organics detected	
	by GC/Hall	
	acetone	210 ug/l
	Benzene	4.9 ug/l
	detected by GC/PID	
	one unidentified peak detected	
	by GC/PID	
76-943	No volatile organics detected	
	by Hall/PID	

_____ GC/MS/DS used

COUNTY Cherokee

QUAD NO T103C35 SERIAL NO. Ce 2397

LAT. 350409 LONG. 835757

N.C. DEPARTMENT OF NATURAL RESOURCES
& COMMUNITY DEVELOPMENT
DEM
GROUNDWATER FIELD/LAB FORM

LAB NUMBER 8 1871245

DATE RECEIVED 5-27-87 Time

Rec'd by: LWF From: Bus-Courier

Other

DATA ENTRY BY: R CK:

DATE REPORTED: 6/28/87

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

COLLECTOR(S): Esherasy DATE 5/27/87 TIME 9:00 am PURPOSE: BASELINE, COMPLAINT, COMPLIANCE (circle one) (LUST) OTHER

FIELD ANALYSES

pH 400 ____ Spec. Cond. 94 ____ at 25°C

Temp. 10 ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC

Location or site TCC Peachtree

Description of sampling point Well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval [redacted] 29'

Remarks 11 shallow (60 bails) (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	5.6	units
✓	Alkalinity to pH 4.5 410	"	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	< 1	mg/l
✓	Bicarbonate 440	13	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
dis	Chloride 940	4	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

* dis	Diss. Solids 70300	25	mg/l
	Fluoride 951		mg/l
dis	Hardness:Total 900	16	mg/l
dis	Hardness (non-carb) 902	5	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block
White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. TN3C35 SERIAL NO. Ca 2397

LAT. 350409 LONG. 835757

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, (Courier), Other

COLLECTOR(S): Shirley DATE 5/27/87 TIME 9:00

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☒ EMERGENCY

LAB NUMBER 8 7G 751

DATE RECEIVED 5/28/87 Time 9:00

Rec'd by: [illegible] From: Bus-(Courier)

Other

DATA ENTRY BY: [illegible] CK: [illegible]

DATE REPORTED: 7-30-87

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST), OTHER (circle one)

FIELD ANALYSES

pH_{400} ____ Spec. Cond.$_{94}$ ____ at 25°C

Temp.$_{10}$ ____ °C Odor ____

Appearance ____ Taste ____

Field Analysis By: ____

Owner State of NC

Location or site The Coca Co - Peachtree

Description of sampling point Well head

Sampling Method bailer (pump, bailer, etc.) Sample Interval ~~[illegible]~~ 29'

Remarks (pumping time, air temp, etc.)

11 shallow (60 bails) 2 bottles

LABORATORY ANALYSES

	BOD_5 310	mg/l		Diss. Solids 70300	mg/l		Ag - Silver 1077	ug/l		Organochlorine Pesticides
	COD High 340	mg/l		Fluoride 951	mg/l		Al - Aluminum 1105	ug/l		Organophosphorus Pesticides
	COD Low 335	mg/l		Hardness:Total 900	mg/l		Ba - Barium 1007	ug/l		
	Coliform:MF Fecal 31616	/100ml		Hardness (non-carb) 902	mg/l		Ca - Calcium 916	mg/l		Acid Herdicides
	Coliform:MF Total 31504	/100ml		Phenols 32730	ug/l		Cd - Cadmium 1027	ug/l		
	TOC 680	mg/l		Specific Cond. 95	uMhos/cm^2		Chromium:Total 1034	ug/l		Base / Neutral Extractable Organics
	Turbidity 76	NTU		Sulfate 945	mg/l		Cu - Copper 1042	ug/l		Acid Extractable Organics
				Sulfide 745	mg/l		Fe - Iron 1045	ug/l		
							Hg - Mercury 71900	ug/l	✓	Purgeable Organics (VOA bottle)
	pH 403	units					K - Potassium 937	mg/l		
	Alkalinity to pH 4.5 410	mg/l					Mg - Magnesium 927	mg/l		1,2 - Dibromoethane (EDB)
	Alkalinity to pH 8.3 415	mg/l					Mn - Manganese 1055	ug/l		
	Carbonate 445	mg/l					Na - Sodium 929	mg/l		
	Bicarbonate 440	mg/l		NH_3 as N 610	mg/l		Ni - Nickel 1067	ug/l		
	Arsenic:Total 1002	ug/l		TKN as N 625	mg/l		Pb - Lead 1051	ug/l		
	Carbon dioxide 405	mg/l		$NO_2 + NO_3$ as N 630	mg/l		Se - Selenium 1147	ug/l		
	Chloride 940	mg/l		P:Total as P 665	mg/l		Zn - Zinc 1092	ug/l		
	Chromium:Hex 1032	ug/l								
	Color:True 80	Pt-Co								
	Cyanide 720	mg/l								

RECEIVED
Water Quality Section
JUL 22 1987
Asheville Regional Office
Asheville, North Carolina

Lab Comments: No [illegible] detected by GC/Mass (PTD)

GW-54 R[illegible]ed 7/85

For Dissolved Analysis - submit fil[illegible]d sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

COUNTY Cherokee

QUAD NO. T103d14 SERIAL NO. Co 2387

LAT. 35°04'03 LONG. 83°58'04"

Report to: (ARO) FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other

Shipped by: Bus, Courier, Other hand

COLLECTOR(S): Minnich DATE 5/19/87 TIME PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, (LUST), OTHER (circle one)

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 1871195

DATE RECEIVED 5-20-87 Time

Rec'd by: GWF From: Bus-Courier

Other

DATA ENTRY BY: L CK:

DATE REPORTED: 5/22/87

FIELD ANALYSES

pH_{400} Spec. Cond.$_{94}$ at 25°C

Temp.$_{10}$ °C Odor

Appearance Taste

Field Analysis By:

Owner State of N.C.

Location or site Fri Co. Co. Co. - Peachtree

Description of sampling point well head

Sampling Method bailed (pump, bailer, etc.) Sample Interval 36.5

Remarks SWL = 25.05' 12 deep (pumping time, air temp, etc.)

LABORATORY ANALYSES

	BOD_5 310		mg/l
	COD High 340		mg/l
	COD Low 335		mg/l
	Coliform:MF Fecal 31616		/100ml
	Coliform:MF Total 31504		/100ml
	TOC 680		mg/l
	Turbidity 76		NTU
✓	pH 403	6.7	units
✓	Alkalinity to pH 4.5 410	52	mg/l
✓	Alkalinity to pH 8.3 415	—	mg/l
✓	Carbonate 445	<1	mg/l
✓	Bicarbonate 440	64	mg/l
	Arsenic:Total 1002		ug/l
	Carbon dioxide 405		mg/l
dis	Chloride 940	32	mg/l
	Chromium:Hex 1032		ug/l
	Color:True 80		Pt-Co
	Cyanide 720		mg/l

dis	Diss. Solids 70300	140	mg/l
	Fluoride 951		mg/l
dis	Hardness:Total 900	43	mg/l
dis	Hardness (non-carb) 902	<1	mg/l
	Phenols 32730		ug/l
	Specific Cond. 95		uMhos/cm²
	Sulfate 945		mg/l
	Sulfide 745		mg/l
	NH_3 as N 610		mg/l
	TKN as N 625		mg/l
	$NO_2 + NO_3$ as N 630		mg/l
	P:Total as P 665		mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)

Lab Comments:

GW-54 Re[illegible]d 7/85

For Dissolved Analysis - submit filte[illegible] sample and write "DIS" in block

White copy - Headquarters Pink [illegible]y - Region Yellow copy - Lab

Edup

COUNTY Cherokee

QUAD NO. F103d14 SERIAL NO. CE 2387

LAT. 350403 LONG. 835804

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other _____

Shipped by: Bus, Courier, Other _____

N.C. DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

DEM

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

☐ ROUTINE ☑ EMERGENCY

LAB NUMBER 8 76943

DATE RECEIVED 7-17-87 Time 10:00

Rec'd by: _____ From: Bus Courier

Other _____

DATA ENTRY BY: _____ CK: _____

DATE REPORTED: 7-27-87

COLLECTOR(S): Lisk DATE 7/15/87 TIME 1300 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER _____ (circle one)

FIELD ANALYSES

pH_{400} _____ Spec. Cond.$_{94}$ _____ at 25°C

Temp.$_{10}$ _____ °C Odor _____

Appearance _____ Taste _____

Field Analysis By: _____

Owner State of N.C. Tri Co. Co College

Location or site Peachtree

Description of sampling point well head

Sampling Method ~~bailer~~ (pump, bailer, etc.) Sample Interval _____

Remarks Rush (Clear) (pumping time, air temp, etc.) 12 deep

LABORATORY ANALYSES

	BOD_5 310	mg/l
	COD High 340	mg/l
	COD Low 335	mg/l
	Coliform:MF Fecal 31616	/100ml
	Coliform:MF Total 31504	/100ml
	TOC 680	mg/l
	Turbidity 76	NTU
	pH 403	units
	Alkalinity to pH 4.5 410	mg/l
	Alkalinity to pH 8.3 415	mg/l
	Carbonate 445	mg/l
	Bicarbonate 440	mg/l
	Arsenic:Total 1002	ug/l
	Carbon dioxide 405	mg/l
	Chloride 940	mg/l
	Chromium:Hex 1032	ug/l
	Color:True 80	Pt-Co
	Cyanide 720	mg/l

	Diss. Solids 70300	mg/l
	Fluoride 951	mg/l
	Hardness:Total 900	mg/l
	Hardness (non-carb) 902	mg/l
	Phenols 32730	ug/l
	Specific Cond. 95	uMhos/cm^2
	Sulfate 945	mg/l
	Sulfide 745	mg/l
	NH_3 as N 610	mg/l
	TKN as N 625	mg/l
	$NO_2 + NO_3$ as N 630	mg/l
	P:Total as P 665	mg/l

	Ag - Silver 1077	ug/l
	Al - Aluminum 1105	ug/l
	Ba - Barium 1007	ug/l
	Ca - Calcium 916	mg/l
	Cd - Cadmium 1027	ug/l
	Chromium:Total 1034	ug/l
	Cu - Copper 1042	ug/l
	Fe - Iron 1045	ug/l
	Hg - Mercury 71900	ug/l
	K - Potassium 937	mg/l
	Mg - Magnesium 927	mg/l
	Mn - Manganese 1055	ug/l
	Na - Sodium 929	mg/l
	Ni - Nickel 1067	ug/l
	Pb - Lead 1051	ug/l
	Se - Selenium 1147	ug/l
	Zn - Zinc 1092	ug/l

	Organochlorine Pesticides
	Organophosphorus Pesticides
	Acid Herdicides
	Base / Neutral Extractable Organics
	Acid Extractable Organics
✓	Purgeable Organics (VOA bottle)
	1,2 - Dibromoethane (EDB)
	SEE ATTACHED ORGANICS ANALYSIS REPORT

Lab Comments: _____

GW-54 Revised 7/85

For Dissolved Analysis - submit filtered sample and write "DIS" in block

White copy - Headquarters Pink copy - Region Yellow copy - Lab

Reported by CW

Checked by LM

Supervisor REK

ORGANIC ANALYSIS

Entered by BM

Checked by DM

Date 1/21/81

Lab No.	Sample Type : Water Analytical Results	Concentration
76-942	No volatile organics detected	
	by GC/Hall	
	acetone	210 ug/l
	Benzene	4.9 ug/l
	detected by GC/PID	
	one unidentified peak detected	
	by GC/PID	
76-943 (12 deep)	No volatile organics detected	
	by Hall/PID	

_____ GC/MS/DS used

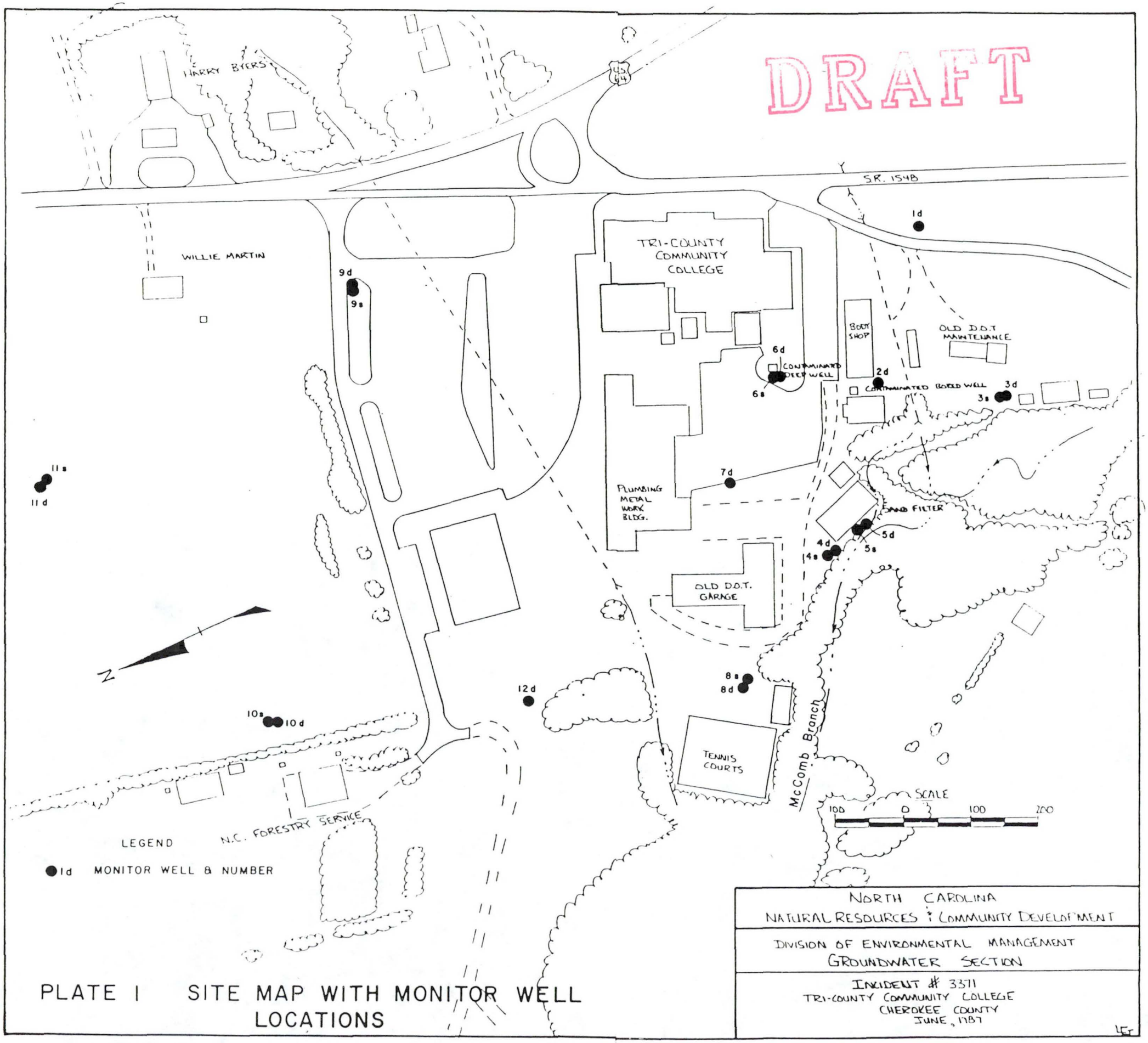


PLATE I SITE MAP WITH MONITOR WELL LOCATIONS

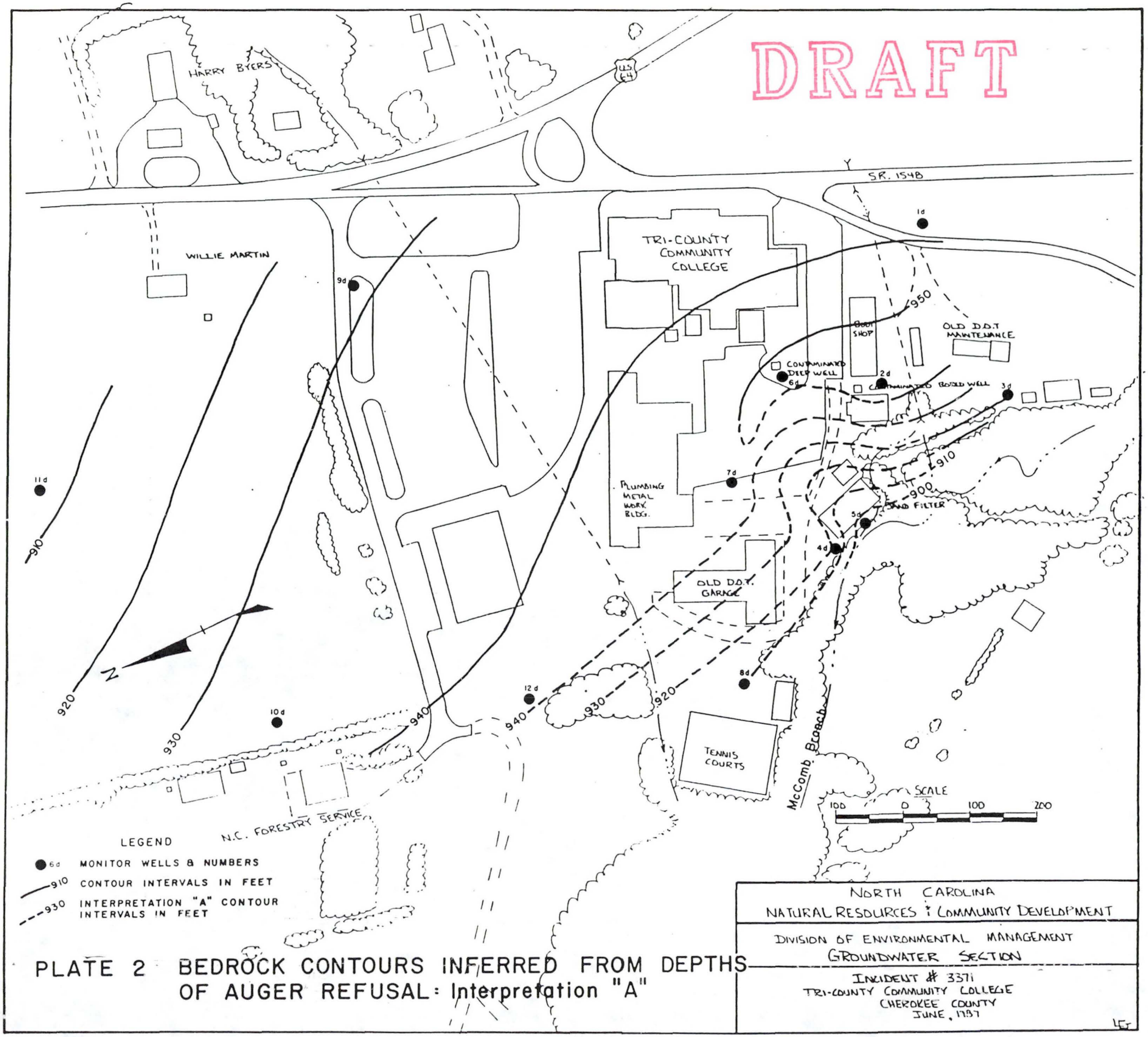


PLATE 2 BEDROCK CONTOURS INFERRED FROM DEPTHS OF AUGER REFUSAL: Interpretation "A"

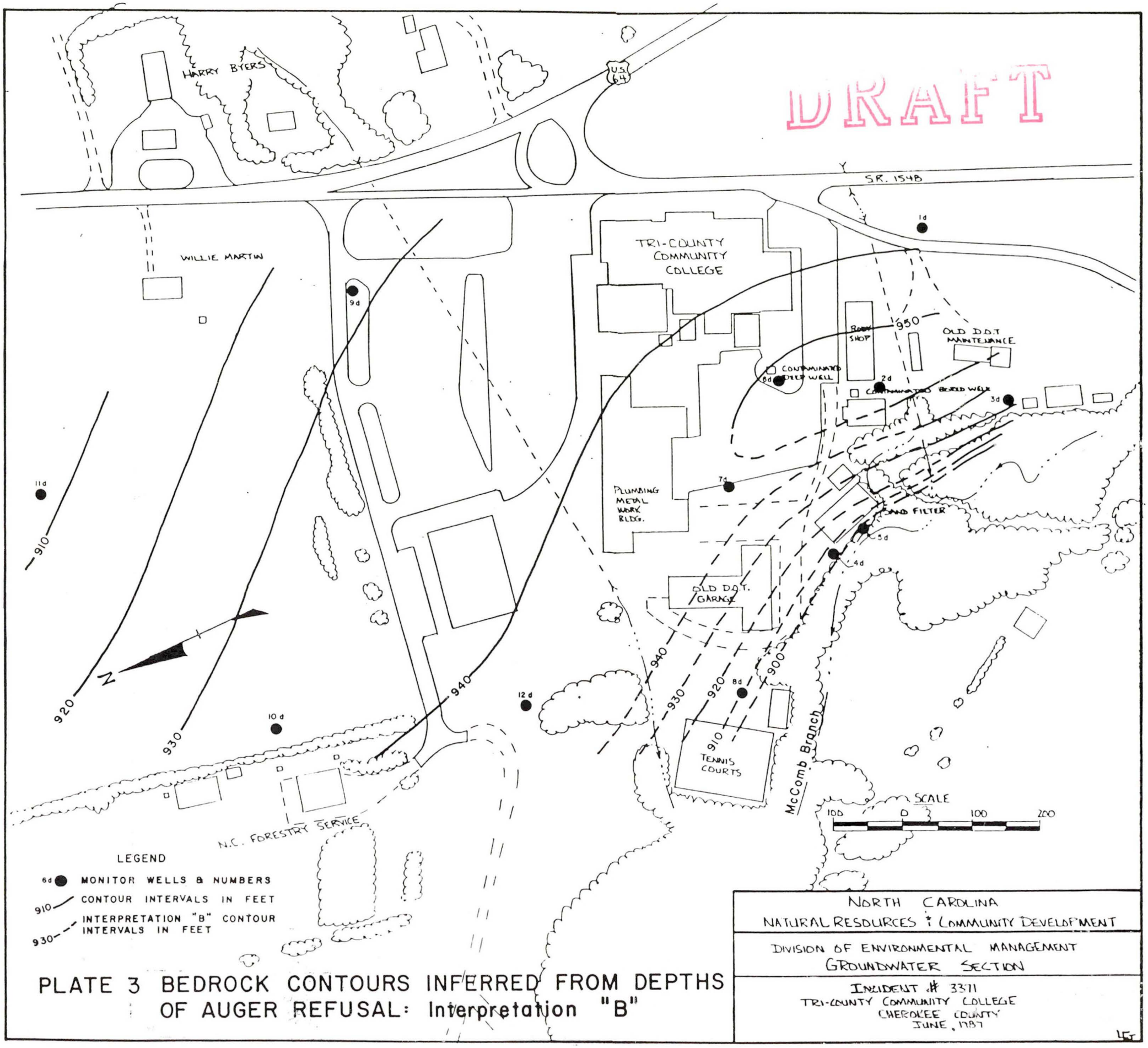


PLATE 3 BEDROCK CONTOURS INFERRED FROM DEPTHS OF AUGER REFUSAL: Interpretation "B"

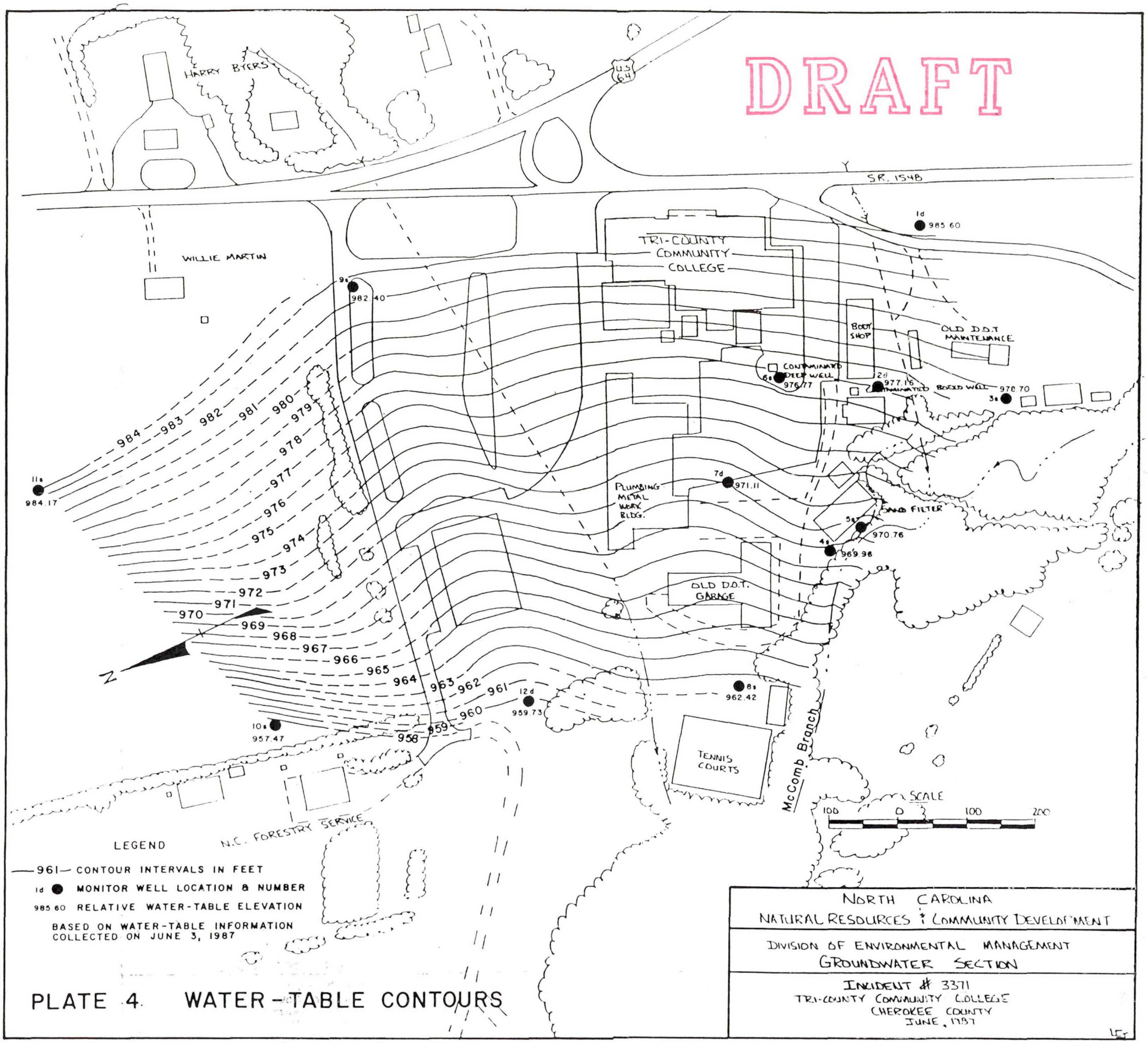


PLATE 4. WATER-TABLE CONTOURS

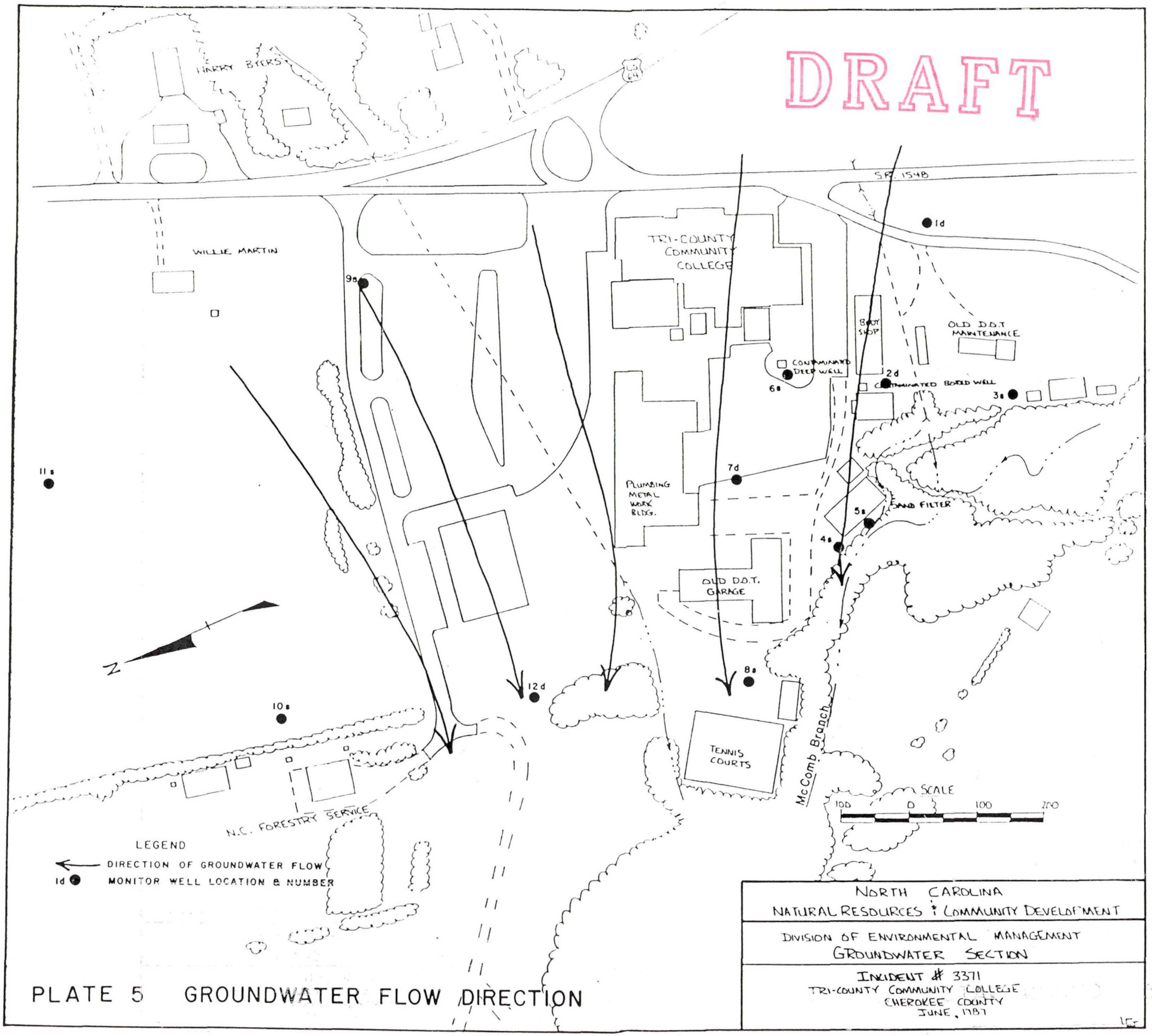


PLATE 5 GROUNDWATER FLOW DIRECTION

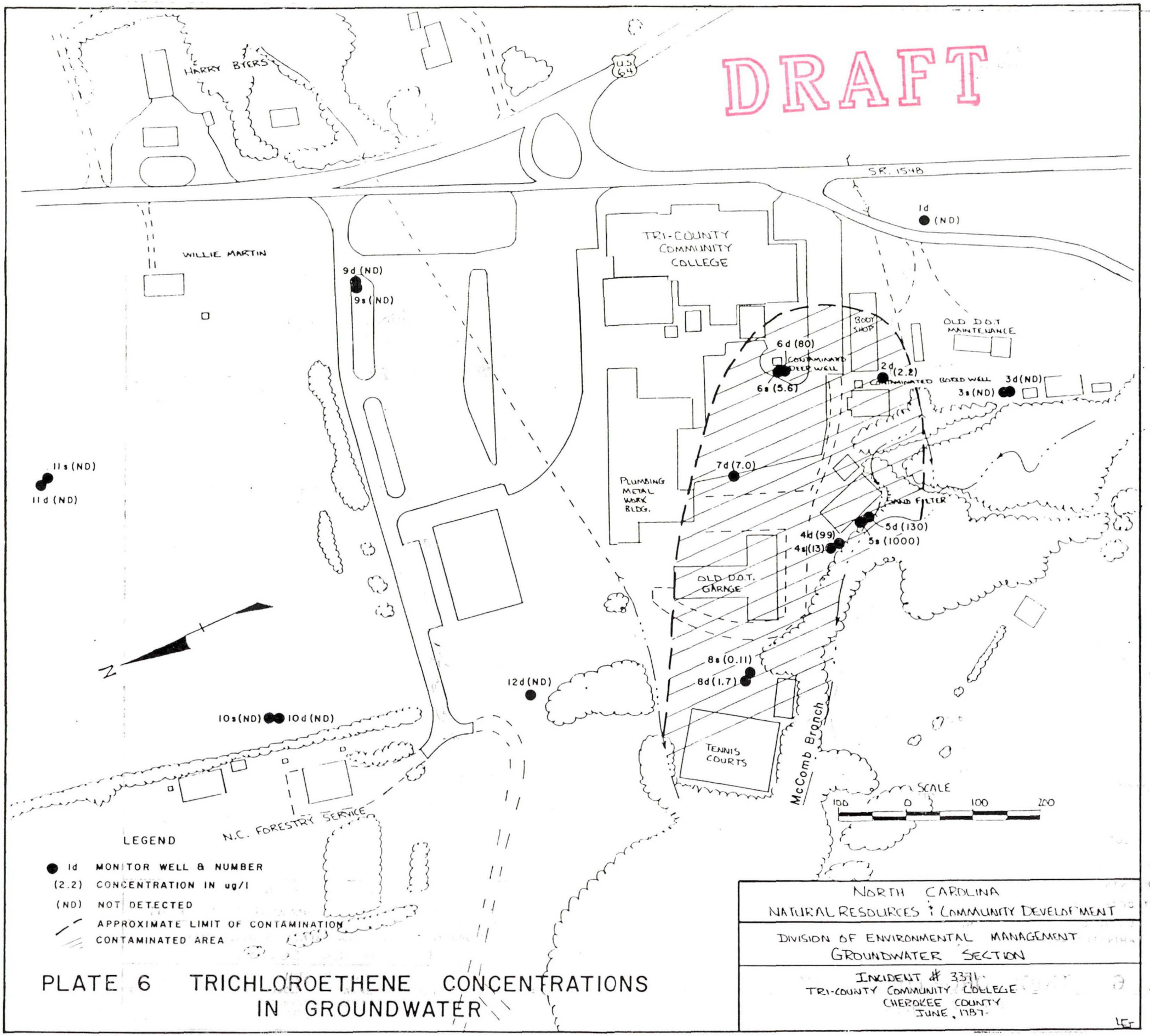


PLATE 6 TRICHLOROETHENE CONCENTRATIONS IN GROUNDWATER