

AT&T COMMUNICATIONS INC.

20489

UNDERGROUND FUEL TANK
REPLACEMENT DOCUMENTATION
AT&T RADIO RELAY STATION
SILK HOPE, NORTH CAROLINA

RECEIVED
N.C. Dept. of EHNR

APR 01 1998

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Regional Office

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AT&T RADIO RELAY STATION
Silk Hope, North Carolina
96JS36-B

EXECUTIVE SUMMARY

One 560 gallon diesel Underground Storage Tank (UST) was removed and replaced with a new 650 gallon Aboveground Storage Tank at the AT&T Radio Relay Station located in Silk Hope, North Carolina on September 13, 1996. The facility is located on Clark Road / SR 2352 in Silk Hope, North Carolina in Chatham County. Tank removal and installation activities were performed by Unger Construction Company of Muskogee, Oklahoma. Representatives from TRC Environmental Corporation of Chapel Hill, North Carolina conducted the environmental analysis for this location.

Prior to removal, 377 gallons of diesel were pumped from the fuel storage tank and disposed of by S&H Oil Company, Inc. of Siler City, North Carolina. After removal, the tank was inspected and no sign of deterioration was evident. The tank was then transported to MMM, Inc. of LaGrange, North Carolina where it was sold as scrap.

During the removal activities, a representative from TRC Environmental Corporation was on site to observe the removal and to perform soil analysis. Soil samples were collected and laboratory tested for Total Petroleum Hydrocarbons, Diesel Range Organics (TPH-DRO) and Gasoline Range Organics (TPH-GRO) by Hydrologic, Inc. of Morrisville, North Carolina. Groundwater was encountered during the removal. A water sample was taken and tested for benzene, toluene, ethylbenzene and total xylenes (BTEX). TRC Environmental Corporation recommended that further investigation be done at this site.

A North Carolina Site Investigation Report for Permanent Closure of UST has been included with the documentation.

ENGINEER/CONTRACTOR INFORMATION

UNDERGROUND FUEL TANK REPLACEMENT
AT&T RADIO RELAY STATION
SILK HOPE, NORTH CAROLINA

OWNER'S REPRESENTATIVES

Mr. Larry McKelvey, Supervisor
AT&T COMMUNICATIONS, INC.
SOUTHERN REGION
1200 Peachtree Street
Promenade-2, Location 7S12
Atlanta, GA 30309
(404) 810-4505

CONSULTANT

JOHNSON, SPELLMAN & ASSOCIATES, INC.
6991 Peachtree Industrial Blvd. Building 700
Norcross, GA 30092
(770) 447-4555

ENVIRONMENTAL

TRC Environmental Corporation
6340 Quadrangle Drive, Suite 200
Chapel Hill, NC 27514
(919) 419-7500

REMOVAL & INSTALLATION CONTRACTOR

Unger Construction Company
7210 Old Taft Road
Muskogee, OK 74401
(918) 638-5028

Job No. 96JS36-B

March 19, 1998

DISTRIBUTION

STATE AGENCY-STATE OFFICE

North Carolina-Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section - Pollution Control
2728 Capital Boulevard
Raleigh, NC 27604

STATE AGENCY- REGIONAL OFFICE

Raleigh Regional Office
3800 Barrett Drive
Raleigh, NC 27609
919-571-4700

AT&T SITE SUPERVISOR

AT&T Communications Inc.
Kathy Furr
4701 Barclay Downs Drive
Charlotte, NC 28210

AT&T ARCHIVE RECORD CENTER

Hanson Engineers, Inc.
47 Perimeter Center Avenue, East
Suite 280
Atlanta, GA 30346
(770) 901-9777

AT&T, BUILDING & CONSTRUCTION

Larry McKelvey, Supervisor Southern Region
1200 Peachtree Street
Promenade-2
Location 7S12
Atlanta, GA 30309
(404) 810-4505

CONSULTING ENGINEERS

Johnson, Spellman & Associates
6991 Peachtree Industrial Boulevard, Building 700
Norcross, GA 30096
(770) 447-4555

ENGINEERING DATA

UNDERGROUND FUEL TANK REPLACEMENT
AT&T RADIO RELAY STATION
SILK HOPE, NORTH CAROLINA

CONSULTING ENGINEER

JOHNSON, SPELLMAN & ASSOCIATES, INC.
6991 Peachtree Industrial Blvd. Building 700
Norcross, GA 30092

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SECTION 1

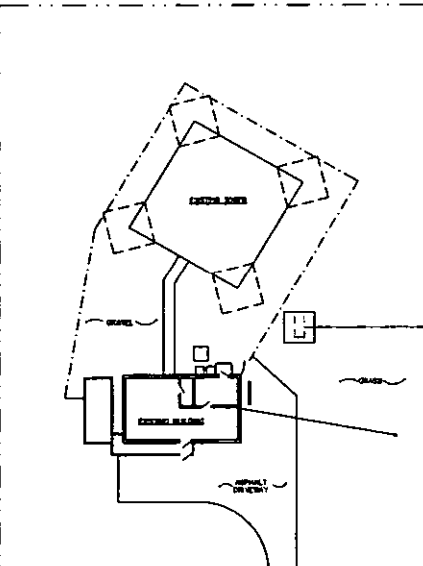
REPLACEMENT DRAWINGS

(Johnson, Spellman & Associates)

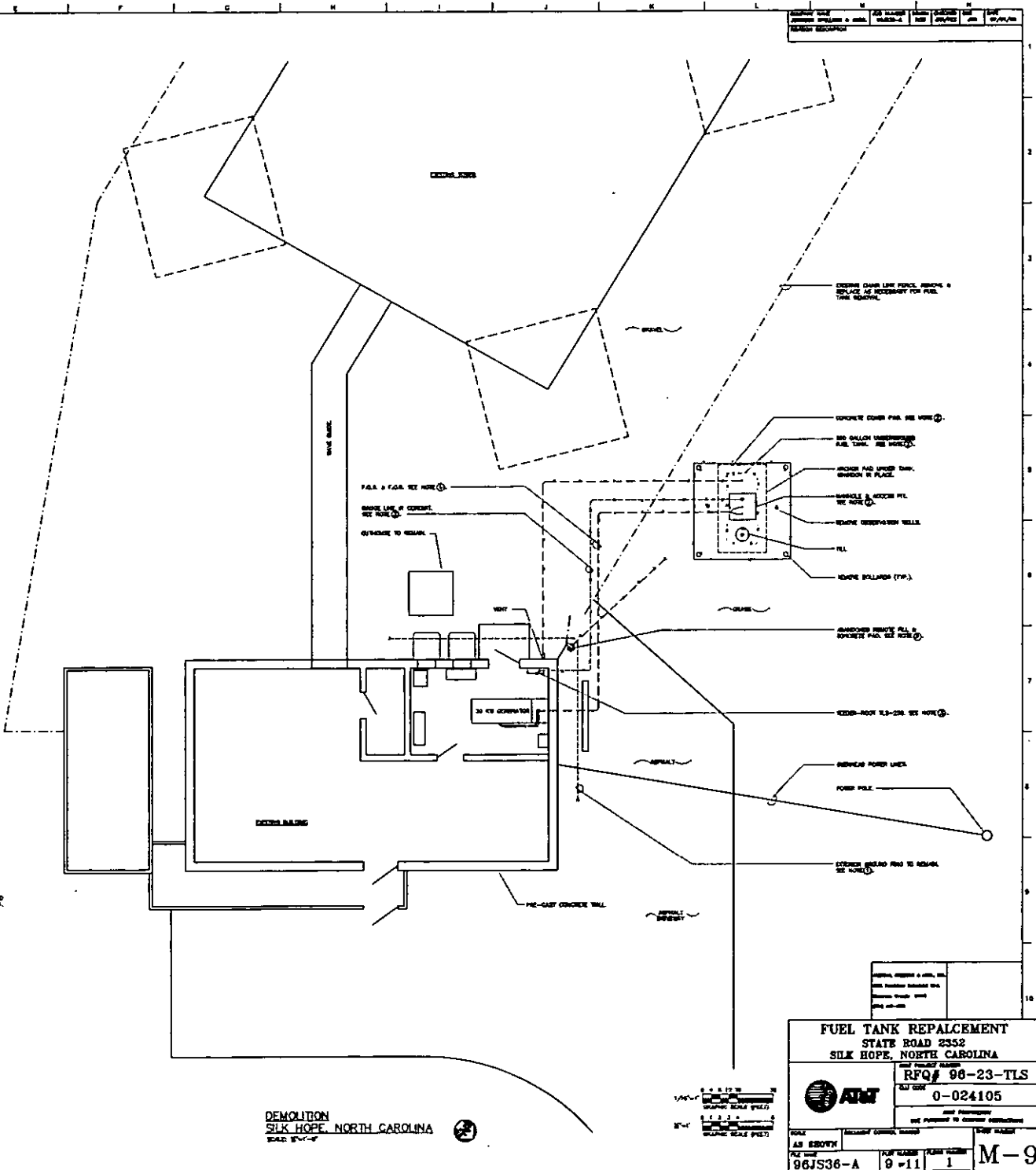
SITE	DATE	APPROXIMATE TANK CAPACITY	APPROXIMATE TANK SIZE	APPROX. DIST. TO TOP OF TANK	APPROX. CORRECT TANK CAPACITY
SILK HOPE	1	800 GALLONS	12'0" x 8'-0"	4'	800 GAL. DECAL

NOTES

- ① VERIFY EXACT LOCATION OF ALL UTILITIES BEFORE BEGIN.
- ② REMOVE EXISTING UNDERGROUND STORAGE TANK, AND/OR STAINS, MANHOLES AND ACCESS PITS. CONCRETE CORNER PILES, FOUND. & ALL TANK, VENT, FILL, HANDBOOK HOUSE PILE, DRIVE AND ALL UTILITIES. SEE SPECIFICATIONS FOR REMOVAL REQUIREMENTS.
- ③ REMOVE WEATHER-ROOF ELIMINATE MOTOR PANEL, TANK HOUSE CONCRETE & VENT. REMOVE WINDS FROM TANK HOUSE FOUND. REMOVE LAUNCH CONDUIT FROM TANK TO BUILDING WALL. CONDUIT AND BRASS MAY BE REUSED IF FOUND TO BE IN GOOD CONDITION.
- ④ REMOVE WALL & FLOOR FROM TANK TO CONNECTION WITH ADJACENT REMOV. SECONDARY COMPARTMENT CONCRETE FROM TANK TO BUILDING WALL. FILL REMOVED CONDUIT WITH HIGH-PRESSURE WATER.



SITE PLAN
SILK HOPE, NORTH CAROLINA
SCALE: 1/8" = 1'-0"



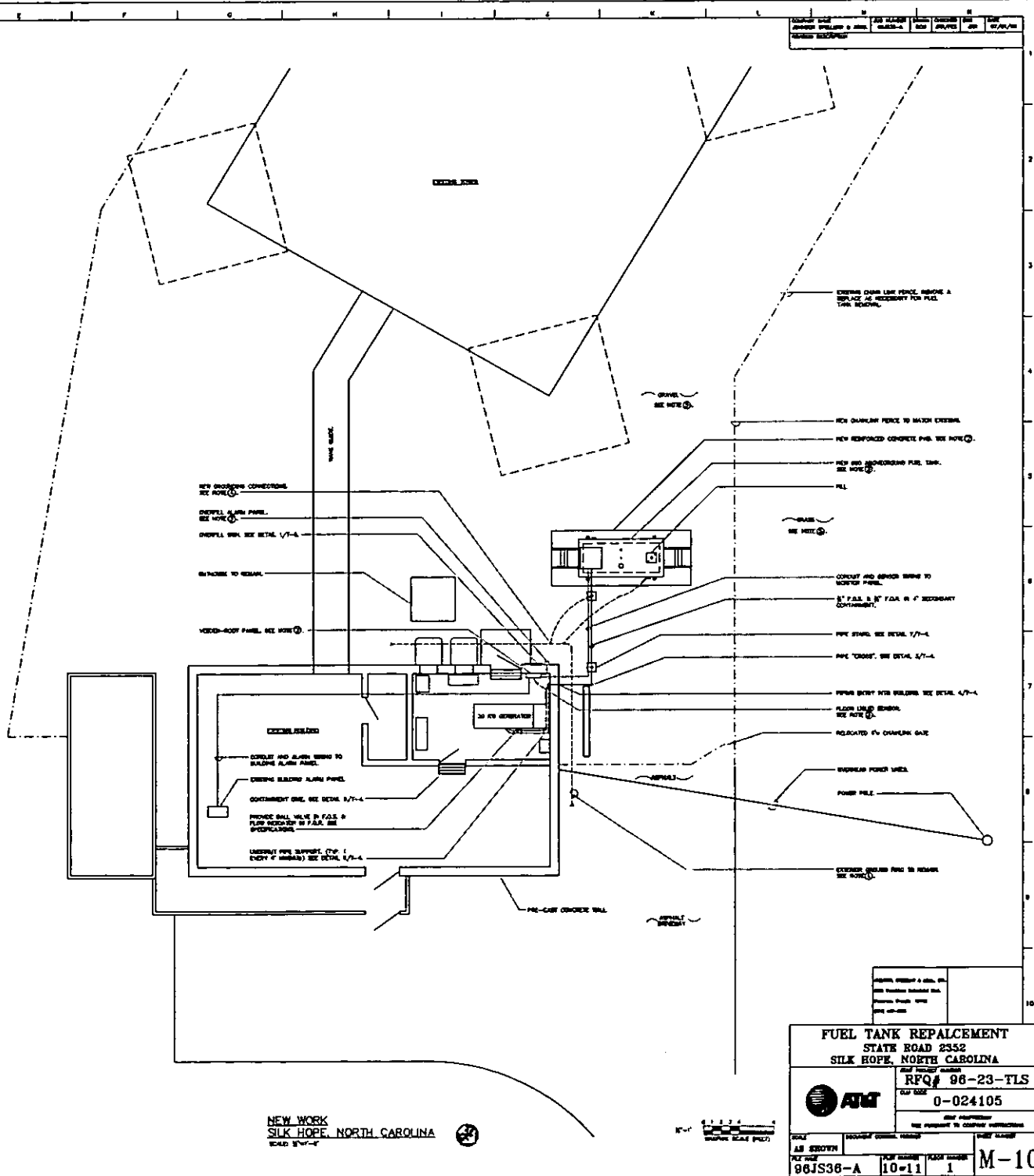
DEMOLITION
SILK HOPE, NORTH CAROLINA
SCALE: 1/8" = 1'-0"

REV	DATE	BY	CHKD	DESCRIPTION

FUEL TANK REPLACEMENT STATE ROAD 2352 SILK HOPE, NORTH CAROLINA		DRAWN BY DATE
RFQ # 96-23-TLS		PROJECT NUMBER 0-024105
AET		JOB NUMBER M-9
SCALE AS SHOWN 96JS36-A	REVISIONS 8	SHEET NUMBER 1

NOTES

- ① VERIFY EXACT LOCATION OF ALL UTILITIES BEFORE DIGGING.
- ② INSTALL NEW DRAIN SYSTEMS SEE SHEET T-1, REFER TO SPECIFICATIONS SECTION FOR ALL INFORMATION OF EQUIPMENT PROVIDED CHECK THIS CONTRACT AND WORK ASSIGNMENT PROVIDED BY OTHERS.
- ③ PROVIDE NEW VEEB-BOOT PANEL, CHIMNEY ROOFING, PROVIDE CONDUIT AND WIRING FROM THE ELECTRICAL PANEL TO THE VEEB-BOOT PANEL, AND CHIMNEY ALARM, PROVIDE CONDUIT AND WIRING TO THE VEEB-BOOT PANEL, AND LEAN WIREMESH, BRIDGE NEW CONDUIT AND PROVIDE EXTERNAL WIRING PROTECTION. SEE SHEET T-4 AND WORK ①.
- ④ PROVIDE NEW 1/2" THICK CONCRETE CHIMNEY BASE FROM THE BASE CURB AND THE PILE, PILING BEING TO THE EXISTING EXTERIOR SIDE OF CHIMNEY AND CAN NOT BE MOVED FROM HERE IF LEAKS OCCUR FROM DAMAGED IN A FUTURE DATE, PILE AND GROUND SHALL BE TO EACH OTHER, CAN HOLD AT ALL CONNECTIONS.
- ⑤ PROVIDE NEW SET TO MATCH EXISTING BRIDGE DAMAGED DURING CONSTRUCTION, REPLACE BRIDGE DAMAGED DURING CONSTRUCTION, REMOVE SOIL FROM AREA ENCLOSED BY NEW FENCE (AROUND TANK), PROVIDE BRIDGE BLOCK FACING AND BRIDGE, RETAIN WALL, TANK AND PILING.



DATE	BY	REVISION

FUEL TANK REPLACEMENT STATE ROAD 2352 SILK HOPE, NORTH CAROLINA			
RFQ# 98-23-TLS 0-024105			
NEW WORK SILK HOPE, NORTH CAROLINA			
DATE: 10-11 DRAWN: 10-11 CHECKED: 10-11 SCALE: 1"=10'-0"	PROJECT NO.: 98JS38-A	SHEET NO.: 1	TOTAL SHEETS: M-10

NEW WORK
 SILK HOPE, NORTH CAROLINA
 10-11-11

SCALE: 1"=10'-0"

SECTION 2

SITE SURVEY

(AT&T Surveyor)

Mike Locklear

^{sup} Howard Bridges #919-821-6329

Tech

Andy Vice #919-220-7493

UNDERGROUND STORAGE TANK
SITE EVALUATION SURVEY FORM

SITE DESCRIPTION

SITE LOCATION - CITY Silk Hope STATE NC AREA NUMBER L262150

TYPE OF SITE Radio Relay SIZE OF SITE 57'x24' CONSTRUCTION DATE 1963

SITE DESCRIPTION pasture & forest

DESCRIPTION OF SURROUNDING PROPERTY pasture & forest

SOIL AND GROUND WATER CONDITIONS high water table

SURFACE WATER PROXIMITY TO SITE NONE

TANK DESCRIPTION

TANK LOCATION externaleburial TANK SIZE 42" x 8' AGE 4 years

PRODUCT STORED diesel IN SERVICE OR ABANDONED in service

TYPE OF TANK butylhide MATERIAL steel COATING fiberglass

CATHODIC PROTECTION ? n/a SECONDARY CONTAINMENT NO

MONITORING SYSTEMS - OBSERVATION WELLS yes AUTO OR MANUAL manual

LIQUID LEVEL MEASURING GAUGE Veeder-Root TLS250 LEAK DETECTOR SYSTEM yes

PIPING SYSTEMS 453 gals

TYPE OF PRODUCT PUMPING SYSTEM (PRESSURE/SUCTION) suction

PIPING MATERIALS 1/2" copper SECONDARY CONTAINMENT yes ?

OBSERVATIONS AND RECOMMENDATIONS

SURFACE CONTAMINATION NOTED NONE

NEAR TANK FILL NONE OTHER NONE EXTENT NONE

OTHER OBSERVATIONS OR PROBLEMS DETECTED "remote fill for removed

tank still in place, was not remove & piping"

ACTION RECOMMENDED up grade containment manhole and piping

install a AST

LOCATION _____

ADDRESS 3 mi SSE of

Snow Camp NC

COUNTY Alamance

LONGITUDE 079 24 27W

LATITUDE 35 51 17N

SECTION _____

TOWNSHIP _____

RANGE _____

TANK # 1

TANK VOLUME 560 GALS.

TANK SIZE 42" DIA. 9' LGTH.

TANK CONTENTS diesel

AMOUNT OF FUEL 38" 548

AMOUNT OF WATER 0

TOP OF TANK 48"

ENGINE ROOM DETAILS

SIZE 16'7" x 9'10"

ROOM FOR INSIDE TANK Y/N NO

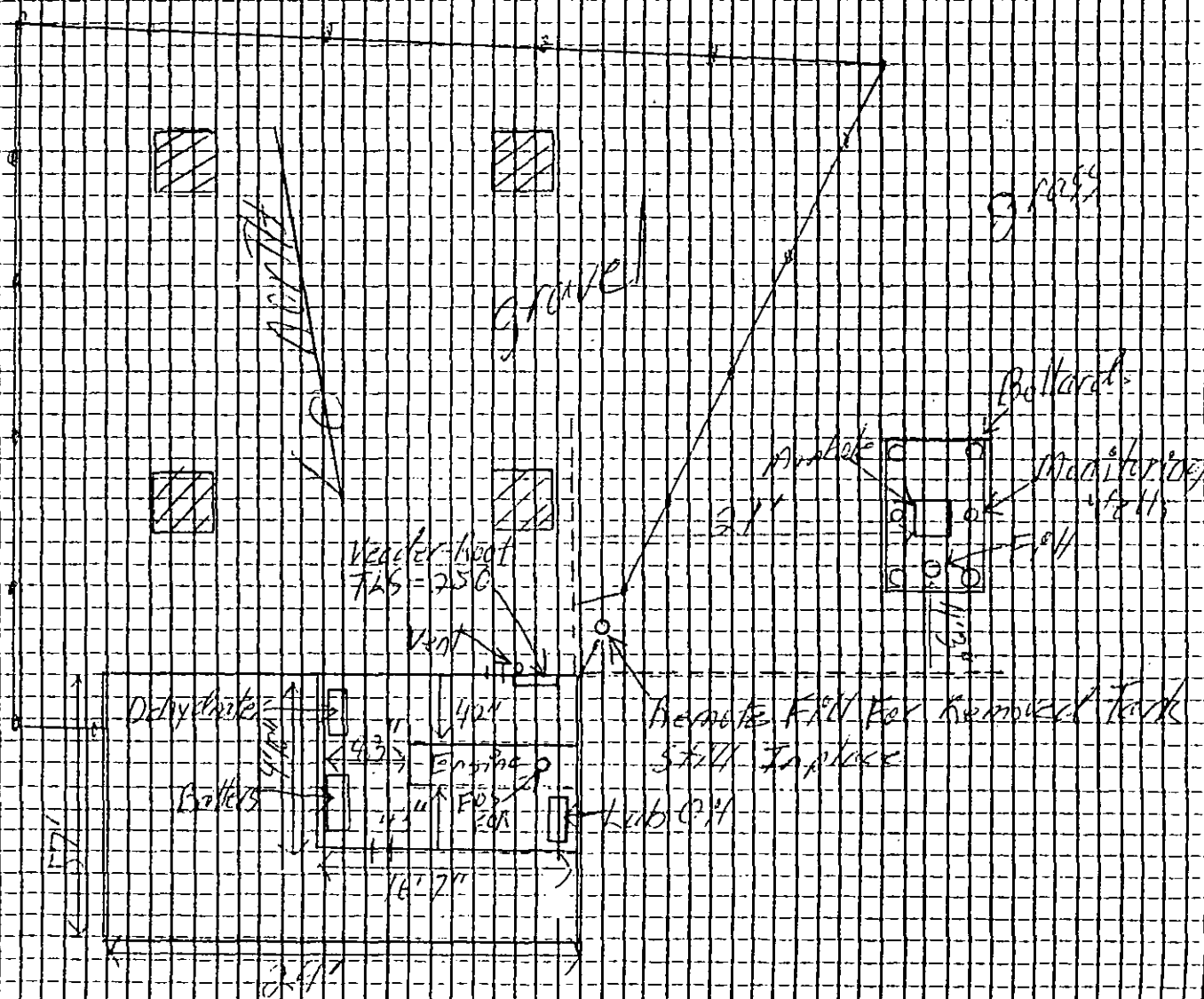
ENGINE DETAILS

ENGINE SIZE 30 KW

ENGINE RUN HRS. 806

CONSUMPTN. FUEL RATE 0.18/HR.

COMMENTS _____



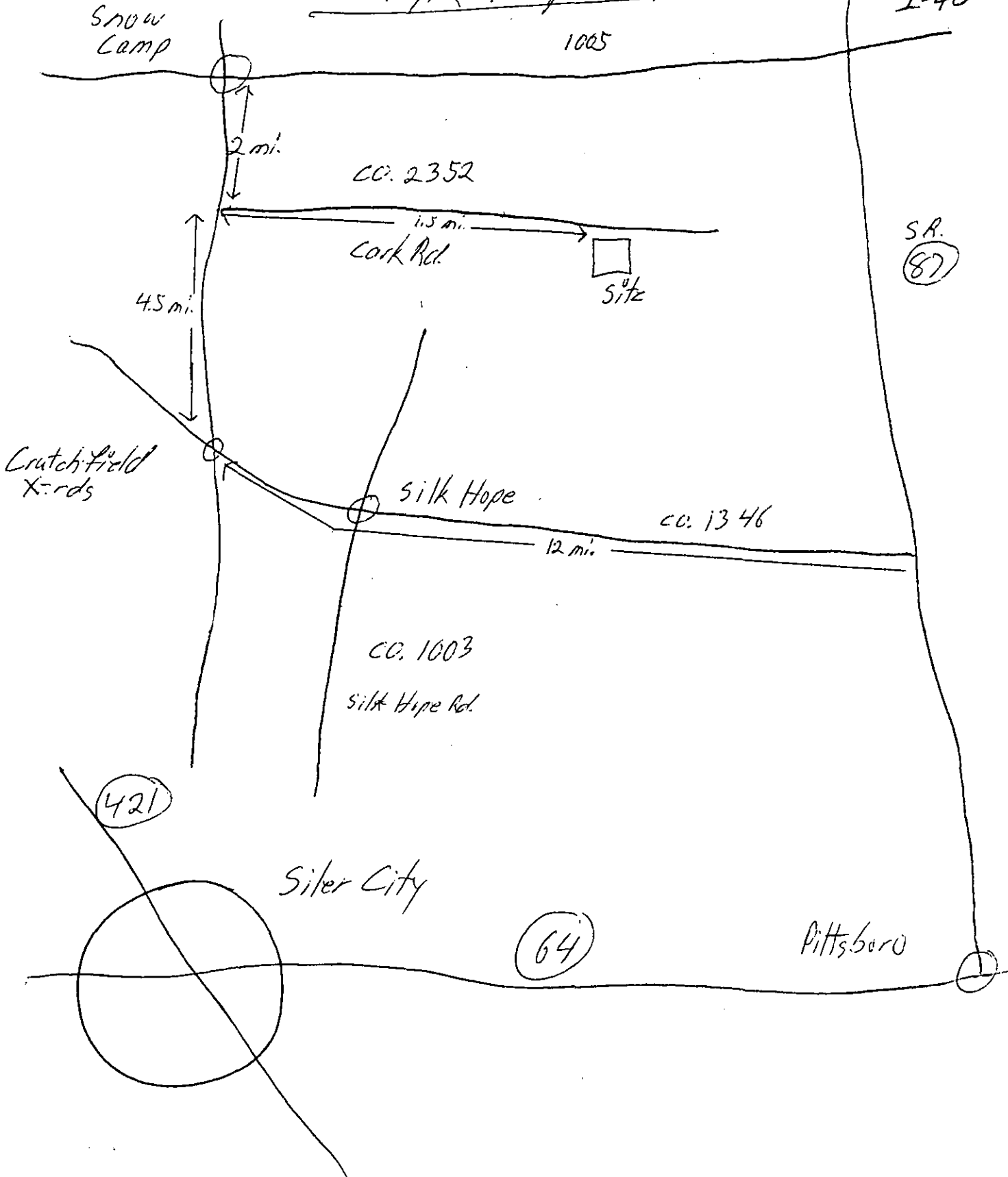
BY _____ DATE _____
CHKD. BY _____ DATE _____

HANSON ENGINEERS, INC.
ENGINEERS — CONSULTANTS
SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

SHEET NO. _____ OF _____
JOB NO. _____

SP/K Hope N.C.

↑
To I-85
I-40



SECTION 3

REPLACEMENT SPECIFICATIONS

(Johnson, Spellman & Associates)

SECTION 15613
ABOVEGROUND DIESEL GENERATOR FUEL TANK AND ACCESSORIES

PART 1 - GENERAL

- 1.01 WORK INCLUDED: Provide all materials, labor and services as specified and shown on the drawings.
- 1.02 CODES: The latest amended editions of the codes applicable to the work of the State and municipality having jurisdiction.
- 1.03 RECORD DRAWINGS: See Section 01320.
- 1.04 MAINTENANCE AND OPERATING MANUALS: See Section 01320.
- 1.05 INVENTORY LOG BOOK: Provide an Inventory Log Book at each site. The log book shall consist of a three-ring binder and log forms to include spaces for tank inventory reconciliation information and generator run time information. The notebooks shall include pockets for storage of printouts from the tank gauging system.
- 1.06 QUALITY ASSURANCE
- A. Install complete and satisfactorily functioning systems, furnishing necessary materials and labor to provide systems in accordance with drawings, specifications and all codes and regulations.
 - B. The fuel tank and associated piping systems shall meet all requirements of the most current Environmental Protection Agency Publications and local and State requirements. The fuel tank shall be installed in accordance with the manufacturer's recommendations and NFPA 30, NFPA 31, NFPA 37, and local requirements.
 - C. The Contractor shall comply with the provisions of all Federal and State regulations pertaining to the removal or modification of existing systems or installation of the new systems.
 - D. The Contractor shall notify the State or the appropriate District office of the work to be performed (including removal and modification of existing systems and installation of new systems) within the times required.
 - E. The Contractor shall obtain all permits and pay all fees required by the State and local jurisdictions.
 - F. New aboveground tanks shall be constructed according to the standards required for tanks with Underwriter Laboratories UL 142 label.

PART 2 - PRODUCTS

2.01 DIESEL OIL STORAGE TANK

- A. The diesel oil storage tank shall have the capacity as indicated on the drawings, be an "Envirovault" manufactured by Phoenix Products, Inc. or an "EcoVault" manufactured by the Reinforced Earth Company or approved equivalent; installed as recommended by manufacturer and in accordance with the codes and regulations indicated above and the drawing details. **The tank will be purchased by Hanson Engineers, received and installed by the Contractor.** The various accessory systems shall be as manufactured by the companies indicated.
- B. The inner steel tank shall be a single wall tank constructed of minimum 7 gauge carbon steel, all welded construction. The concrete encasement shall be 6" thick concrete, precast/poured at the factory. An interstitial space shall be provided between the inner and outer tank. The tanks shall be designed to allow free flow of liquids in the interstitial space.
- C. Tank shall be furnished with openings as indicated on the drawings. Provide bushings and unions at all connections to reduce to size required.
- D. Exterior of the tank shall be primed with paint and painted with 1 finish coat of oil base paint.
- E. The tank shall come equipped with an emergency vent from the manufacturer.
- F. The Phoenix Products, Envirovault tank shall come equipped with a containment box as shown on the drawings. The containment box for the EcoVault tank shall be provided by the Contractor.

2.02 TANK GAUGING AND LEAK MONITORING SYSTEM: The tank gauging and leak monitoring system shall be the following:

- A. Veeder Root TLS-350 with modules as required for monitoring leaking in the interstitial space.
- B. The system provided shall include the TLS-350 control unit, printer with takeup reel, Series 8473 Magnetostrictive probe (0.1 GPH) with fuel level and water sensors and temperature sensors, riser cap. Modules and sensors shall be provided for the interstitial space, probe and sump sensor.
- C. The normal mode for the system shall be "Leak Detect". The system shall automatically "sense" the emergency engine or transfer pump running and prevent a false leak alarm from being sent. The interstitial monitor and sump systems shall remain active at all times.

- D. After the engine or pump has stopped, the system shall automatically provide an inventory printout and then revert to the normal leak detect mode. The system shall also be programmed to automatically provide an inventory printout every 30 days.
- E. Provide relay or contact for transfer pump or lube oil pressure or fuel flow switch for engine to provide "RUN" signal. Provide conduit and wiring to the panel.
- F. The system shall provide the following alarms:
1. Leak alarm.
 2. Low fuel alarm.
 3. High fuel alarm.
 4. Water fuel alarm.
 5. Liquid sensor alarm.
 6. An 8 output relay module shall be installed in the V/R panel for future connection of the individual alarms and extension of wiring by others.
- G. The alarms wiring shall be pulled to the Owner's monitoring panel and connected to the existing set of dry contacts currently used for "Low Fuel Alarm". Conduit and wiring may be extended from the location of the existing liquidometer gauge to the new gauge panel, where applicable.
- H. The system shall include provisions for future installation of a modem and RS232 interface for remote data retrieval.
- I. Rigid PVC or metallic conduit and wiring, as recommended by the system manufacturer, shall be provided from the tank to the new panel.
- J. The Veeder Root TLS-350 setup data form is included in Veeder Root documentation. Fill-in the blank lines left for tank diameter and the four volumes and program the Veeder Root per the setup data. Mount a framed copy of the setup form with all blanks filled in adjacent to the Veeder Root system.
- K. The system shall include a Veeder Root TLS Overfill Alarm and Alarm Acknowledgment Switch. This alarm shall activate when the fuel level exceeds 90% capacity of the tank.

2.03 PIPING AND ACCESSORIES

- A. Vent piping shall be Schedule 40 steel, ASTM A-53, Gr. A or B seamless, with forged steel, screwed fitting conforming to ASTM A-105 Gr.2, ANSI B 16.11 and ANSI B 2.1.
- B. Fuel oil supply and return piping shall be Schedule 40 steel, ASTM A-53, Gr. A or B seamless. Support piping using brackets secured to walls or as indicated on drawings. Secondary containment piping shall be black iron (steel) pipe with sizes as indicated on drawings. Joints/connections shall be welded unless noted otherwise, or couplings are required. See specification section 15060.
- C. Thread sealant compound shall be suitable for use with oils and solvents; Quigley "Q-Seal" or equal.
- D. Provide polyethylene piece to isolate fuel piping from black iron secondary containment piping.
- E. The fuel fill shall be tight fill type (A30-014). The cap (A97-002) shall include provisions for a padlock. Cap shall be securely fastened to fill line to prevent removal of entire cap.
- F. "Victaulic" fittings shall be manufactured by the Victaulic Company of America, (215) 252-6400. Installed per manufacturers recommendations.

2.04 OVERFILL PROTECTION VALVE: The overfill protection valve shall be a Guillotine Fill Limiter (1-800-824-1394) or approved equal.

2.05 An Adapter Assembly shall be provided with each fuel tank. The assembly shall consist of a female camlock coupler, 1.5" spout, 1.5" x 1.25" reducer, and a 1.25" spout. Adapter Assemblies may be obtained from Miller Tank and Pipe Co. (fax 812/246-5144). Adapter kits shall be left in the fill bucket, unattached until needed for filling AST.

2.06 SIGHT FLOW INDICATORS: Sight Flow Indicators shall be W. E. Anderson Model 100 or Model 300, or equal, sized to match the piping it is connected to.

PART 3 - EXECUTION

3.01 CONTINUITY OF SERVICE: Fuel oil shall be provided continuously to the generator during the construction period. The Contractor will provide a doublewall steel temporary tank or a single wall tank with containment basin and piping as required. The Contractor shall contact the Owner no less than five (5) working days prior to disconnecting the existing fuel system.

3.02 TANK AND PIPING

- A. Protect the tank finish from damage during installation or modification. Any damaged finish areas of the tank shall be repaired to match factory finish.
- B. Fuel oil piping shall be installed from the tank to the existing generator as indicated on the drawings. Provide shut-off and solenoid valves in the supply line as indicated on the drawings.
- C. Vent piping shall extend vertically out of tank and terminate a minimum of 10' above grade. Vent shall be terminated with an OPW 23 or Emco-Wheaton A4103 vapor vent cap. Emergency vent shall be Morrison Model No. 244.
- D. Fuel oil piping shall be hydrostatically tested to 100 psig for 1 hour with no readable pressure drop on a ½ of 1" accuracy gauge.
- E. The tanks shall be pressure tested to 5 psig for 2 hours with no readable pressure drop, in strict accordance with manufacturer's instructions and drawing details.
- F. Install tank accessories in accordance with manufacturers' instructions and drawing details.

3.03 PIPING

- A. Each piping system shall, after all testing is satisfactorily completed, be flushed, blown out or otherwise cleaned in accordance with the requirements of the Pipe Fabrication Standard ES 5.
- B. All exposed fuel piping, vent piping, and steel secondary containment shall be thoroughly cleaned and painted as specified for ferrous metal.

3.04 TANK GAUGING AND LEAK MONITORING SYSTEM

- A. The tank gauging and leak monitoring shall be installed per manufacturers instructions and drawing details. The system shall be programmed as required for the components installed.
- B. The alarms shall be individually tested to assure that each alarm is detected as an open conduit at the cross connect panel.

3.05 MONITORING SYSTEM TRAINING: The Contractor shall provide on site training on the Veeder Root system for AT&T personnel at each site. Training shall be by factory trained Veeder Root personnel. Training shall be for a minimum of four (4) hours at each site and shall cover programming, operation and maintenance of the equipment at each site.

- 3.06 FUEL: The contractor shall dispose of all existing fuel. The contractor shall provide new fuel to fill the tank to 90% capacity.
- 3.07 PRESSURE TESTING/CERTIFICATION:
- A. Fuel piping shall be tested to 100 psig for 1 hour with no readable pressure drop on a ½ of 1% accuracy gauge. All primary supply and return piping, welded and soldered joints, and mechanical joints shall be tested.
 - B. Secondary containment piping shall be tested to 5 psig for 2 hours with no readable pressure drop on a ½ of 1% accuracy gauge.
 - C. The fuel tank shall be pressure tested to 5 psig for 2 hours with no readable pressure drop, in strict accordance with manufacturers instructions/recommendations.
 - D. The contractor shall provide written certification, signed by the Owner's representative, that the piping passed the pressure test. This certification shall be included with the Contractor's final documentation provided to the Owner. See Documentation Section (01320, 01325, or 01326) for the Leak Testing Certificate form

END OF SECTION 15613

SECTION 15620
REMOVAL OF UNDERGROUND DIESEL FUEL TANKS AND PIPING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section specifies the procedures to be used for the removal of the underground diesel fuel storage tank, piping and accessories.
- B. Provide all materials, labor and equipment necessary to remove the existing tanks and piping, assist the Environmental firm in testing the soil for contamination and backfill the excavations to existing grade, in accordance with all applicable codes and regulations.

1.02 CODES AND STANDARDS

- A. The following codes and standards shall be used in the removal and disposal of the tanks and the testing of the tank excavation for contaminants:
 - 1. EPA 40 CFR Parts 280 and 281, "Underground Storage Tanks, Federal Regulations".
 - 2. API Recommended Practice 1604, December 1987, "Removal and Disposal of Used Underground Petroleum Storage Tanks".
 - 3. NFPA 30, 1981, "Flammable and Combustible Liquids Code".
 - 4. Applicable State and Local Regulations.
- B. The Contractor shall comply with the provisions of State regulations pertaining to the removal of existing systems. The Contractor shall notify the State of the work to be performed (including removal and modification of existing systems) within the times required. The Contractor shall submit copies of plans and specifications and provide additional data or procedures required by the State.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Materials shall be provided as required for the excavation of the tank, removal of the tank, testing of the soil and ground water in the excavation, and backfilling of the excavation.
- B. All materials shall meet requirements set forth below and applicable requirements of the codes and standards above.

2.02 SOIL TESTING PRIOR TO EXCAVATION

- A. Testing of the soil at the tank site prior to excavation is not required.
- B. Visual inspection of the site has been made and visible contamination has not been found. If any contamination is found at the site during the excavation, stop excavating and report the signs of contamination to AT&T building design and construction, immediately. Soils testing may then be authorized by AT&T.
- C. If required, sampling of the soil around the tank site shall be done by testing split spoon samples taken at 2 foot intervals from 6 inches below the surface to a depth of 1 foot below the bottom of the tank. Sampling locations should be a maximum of 20 feet apart around the perimeter of the tank and piping system. A minimum of 4 sampling points should be used, with one located directly down gradient from the tank in the direction of presumed water flow.
- D. The perimeter of the tank shall be determined by estimating the location of the tank and piping and adding a safety area approximately four feet wide to assure that the drill rig does not hit the tank or piping.
- E. If ground water is found in the boring, water samples should be taken and analyzed for contamination.
- F. If soil contamination is confirmed, work shall be halted and AT&T shall be contacted immediately.

2.03 REMOVAL OF TANKS

- A. The procedures outlined below should be followed, along with those required by applicable state and local regulations.
- B. Fuel shall be removed from the site by a Certified hauler. A certificate of removal shall be provided for the product. All product shall be removed from the tank. Excavate to top of tank. Drain and flush all piping into the tank. Disconnect all piping and cap at both ends, remove from the site and properly dispose of.
- C. All sludge should be removed from the bottom of the tank, stored in suitable containers, and disposed of properly. The sludge shall be removed by a Certified hauler. A vacuum truck shall be used to remove sludge and cleaning residue from the tank.
- D. The tank shall then be purged of product vapors by forcing inert gas (carbon dioxide or nitrogen) through the tank or by adding carbon dioxide (dry ice) in the amount of 1.5 pounds per 100 gallons of tank capacity. Inert gas should be introduced near the bottom of the tank at the opposite end of the tank from the vent.

- E. Care must be taken to avoid pressurizing the tank or causing a static charge build-up in the system resulting in a possible discharge and explosion. Gas should be introduced under low pressure (maximum 5 psig). An explosimeter shall be used to monitor the level of explosive vapors to ensure safe levels throughout the operation. All meters shall be routinely calibrated per manufacturer's instructions prior to use on the jobsite.
- F. Clean the tank using a triple rinse or other method approved by AT&T and the authorities having jurisdiction. The cleaning shall be accomplished prior to removal from the site. Use a liquid appropriate for the contents of the tank. A vacuum truck shall be used to remove residue and rinse products from the tank. All residue and rinse products should be disposed of at an AT&T approved disposal site.
- G. Temporarily plug all tank openings, complete the excavation and remove the tank, placing it in a secure location, blocking the tank to prevent movement.
- H. Before the tank is removed from the site it must be cut in half. Once the tank has been removed, cleaned and cut, the tank shall be disposed of as scrap metal or landfilled. Take proper precautions in cutting the tank to prevent explosion during the process.
- I. A Certificate of Disposal must be required from the receiving party. This document should detail the method and location of the destruction and disposal of the tank. A Certificate of Disposal must be provided to AT&T. Tanks may not be sold for reuse.

2.04 POST-REMOVAL SOILS TESTING

- A. Analytical soils reports shall be obtained for the site of each removed tank. These reports will document that the site is free from contamination from the removed tank system. Soil samples will be taken by the Independent Environmental Firm. The cost of testing will be paid by the testing firm. The Contractor shall assist the firm in taking the samples.
- B. After the tank is removed and before any backfill is placed, soil samples shall be taken one to two feet below the tank excavation in the suspected worst case locations. These include the areas with the highest readings on vapor monitoring equipment, areas around the tank or piping location which appear to be stained or discolored, the lowest points of the tank, and the points where the piping connected to the tank. A minimum of four samples should be taken, one at each corner of the tank excavation. Water samples should also be taken if the ground water is above the level of the bottom of the original excavation.

- C. Soil sample should be taken where possible from undisturbed soil, such as at the bottom of the excavation. Care should be taken to ensure the safety of personnel when samples are taken.
- D. A portable lab should be used to analyze the soil samples on site or a preliminary field screening test should be used to confirm the absence of contamination before the site is backfilled. The field screening does not replace the laboratory soils reports.
- E. When the soil samples are transported to a laboratory, chain of custody procedures should be followed to ensure the validity of the samples in the event of a legal challenge.
- F. The soils reports indicating that the site is free from contamination shall be provided to AT&T. Samples shall be tested for, as a minimum, BTEX and TPH.
- G. If significant contamination is found, do not backfill the site. Contact AT&T for direction. The excavation shall be covered with an impermeable material such as plastic and cordoned off to prevent access until a remediation plan can be approved. Provisions such as diking or temporary backfilling may be required to prevent entry of surface or ground water into the excavation.
- H. Minor contamination shall be removed before samples are taken. The contaminated soil can be spread on plastic sheeting and aerated on site if permitted by the local authorities or can be transported in barrels to an AT&T approved disposal site.

2.05 BACKFILLING

- A. All imported backfill materials must be analyzed for VOC's and petroleum hydrocarbons to prevent contamination of the site. Documentation of the methods and results of the analysis shall be provided to AT&T.
- B. Backfill materials should not be significantly different from the background soils. Backfill shall be placed in 6" layers and compacted to at least 95% of the standard proctor maximum dry density (ADTM D698).
- C. The top 12" of the excavation shall be finished to match the adjacent areas. The final 12" shall be backfilled with topsoil and reseeded in grassed areas. Paved or graveled areas shall be repaved to match the adjacent paving.
- D. The entire work area shall be cleaned of debris.

2.06 SUMMARY OF DOCUMENTATION: See Section 01310.

END OF SECTION 15620

SECTION 4

STATE FORM

(Johnson Spellman & Associates)

FOR TANKS IN NC

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location.
(SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS).

State Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

II. Location of Tank(s)

Owner Name: AT&T COMMUNICATIONS, INC.
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 1200 PEACHTREE ST. PROMENADE II
County: FULTON
City: ATLANTA State: GA Zip Code: 30309
Telephone Number: (404) 810-4505
(Area Code)

Facility Name: SILK HOPE RADIO RELAY STATION (NC 2150)
(or Company)
Facility ID # (if available): 0-024105
Street Address: SR 2352 (CLARK RD)
(or State Road)
County: CHATAM City: SILK HOPE Zip Code: _____
Telephone Number: (_____) _____
(Area Code)

III. Contact Person

Name: LARRY MCKELVY Job Title: SUPERVISOR - BUILDING & CONSTR. Tel. No.: (404) 810-4505
Closure Contractor: UNGER CONSTRUCTION Co. Address: 7210 OLD TAFT RD; MUSKOGEE OK 74403 Tel. No.: 918-683-5028
Primary Consultant: JOHNSON, SPELLMAN & ASSOC Address: 6991 PEACHTREE IND. BLVD. Tel. No.: (770) 447-4555
Geologist: HYDROLOGIC, INC. Address: 2500 GATEWAY CENTRE BLVD; MORRISVILLE NC Tel. No.: 919-440-0093

IV. U.S.T. Information

V. Excavation Condition

VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water In Excavation		Free Product		Notable Color or Void or Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	560	48" x 64"	DIESEL	X		X		X	

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

NOTE: The site assessment portion of the tank closure must be conducted under the supervision of a Professional Engineer or Licensed Geologist. After Jan. 1, 1993, all closure site assessment reports must be signed and sealed by a P.E. or L.G.

VII. Check List (Check the activities completed)

PERMANENT CLOSURE (For Removing or Abandoning-in-place)

- Contact local fire marshal.
 - Notify DEM Regional Office before abandonment.
 - Drain & flush piping into tank.
 - Remove all product and residuals from tank.
 - Excavate down to tank.
 - Clean and inspect tank.
 - Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
 - Cap or plug all lines except the vent and fill lines.
 - Purge tank of all product & flammable vapors.
 - Cut one or more large holes in the tanks.
 - Backfill the area.
- Date Tank(s) Permanently closed: 9-13-96
Date of Change-in-Service: _____

ABANDONMENT IN PLACE

- Fill tank until material overflows tank opening.
- Plug or cap all openings.
- Disconnect and cap or remove vent line.
- Solid inert material used - specify: _____

REMOVAL

- Create vent hole.
 - Label tank.
 - Dispose of tank in approved manner.
- Final tank destination: MMM, INC. OF LAGRANGE, NC

VIII. Certification (Read and Sign)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative: LARRY MCKELVY - SUPERVISOR - BUILDING & CONSTRUCTION
Signature: [Signature]
Date Signed: 3-23-98

ENVIRONMENTAL CONSULTANT'S DATA

Underground Fuel Tank Replacement
AT&T RADIO RELAY STATION
Silk Hope, North Carolina

ENVIRONMENTAL ENGINEERS

TRC Environmental Corporation
6340 Quadrangle Drive, Suite 200
Chapel Hill, NC 27514
(919) 419-7500

TRC Environmental Corporation

6340 Quadrangle Drive, Suite 200
Chapel Hill, North Carolina 27514
Telephone 919-419-7500
Facsimile 919-419-7501

April 10, 1997

Mr. Ron Baxley, Building Engineer
AT&T NSTAP
C/O Hanson Engineers Incorporated
47 Perimeter Center East, Suite 280
Atlanta, Georgia 30346

Subject: Submittal of AT&T Underground Storage Tank Final Closure Report on Silk Hope, North Carolina Site: TRC Project # 21284-0030-00005

Dear Mr. Baxley:

We are in receipt of your written confirmation dated March 31, 1997 which acknowledges completion of AT&T's review of our draft reports submitted in December 1996 on each of the sites referenced above. This authorization directs TRC Environmental Corporation (TRC) to prepare the final closure reports on the referenced sites. In accordance with our proposal dated July 3, 1996, enclosed are three final copies of each report for use by AT&T, and one additional copy for submittal to the North Carolina Division of Water Quality (previously called the Division of Environmental Management). Based on instructions given to us during our conference call with you and Mr. Ferguson on February 28, 1997 it is our understanding that AT&T/Hanson will forward one copy of each report to the DWQ. A supplemental appendix is included at the end of this report pertaining to the additional efforts performed at the Silk Hope site related to installation and sampling of the ground water monitoring well.

Please call me at (919) 419-7578 if you have any questions or comments.

Sincerely,



Michael L. Babuin, P.G.
Solid & Hazardous Waste Program Manager

Attachments

j:\projects\at&t\ncust\nc11sites\fin2.ltr

cc: Tom Barbee

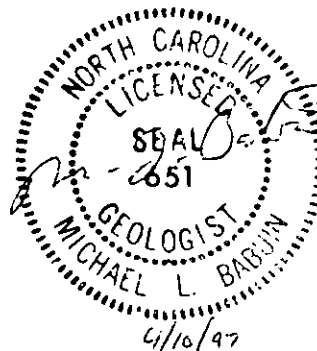


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Appendix

- A Notification of Intent to Close (GW/UST-3)
- B Site Investigation Report for Permanent Closure or Change-in-Service of UST (GW/UST-2)
- C Soil, Water, and Sludge Disposal Manifests
- D Chain-of-Custody Records
- E Laboratory Analytical Records
- F Site Sensitivity Evaluation (SSE)
- G Geologic Log for Excavation
- H Certificate of Tank Disposal
- I Additional Site Efforts

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I. GENERAL INFORMATION

A. Ownership of UST(s)

1. Name of UST Owner:

AT&T Communications, Inc.

2. Owner address and telephone number:

*1200 Peachtree Street, Promenade II
Atlanta, Georgia 30309
(404) 810-4505*

B. Facility Information

1. Facility Name:

Silk Hope Radio Relay Station

2. Facility ID #:

0-024105

3. Facility address, telephone number and county:

*SR 2352 (Clark Road)
Silk Hope, North Carolina
Chatham County (Figure 1)
Telephone - Unknown/Unavailable*

C. Contacts

1. Name, address/telephone number/job title of primary contact person:

*Mr. Larry McKelvey
1200 Peachtree Street, Promenade II, 7S12
Atlanta, Georgia 30309
(404) 810-4505*

2. Name, address and telephone number of closure contractor:

*Unger Construction Company
7210 Old Taft Road
Muskogee, Oklahoma 74401
(918) 683-5028
(918) 683-8761 Fax*

3. Name/address/telephone number of primary environmental consultant:

*TRC Environmental Corporation
6340 Quadrangle Drive, Suite 200
Chapel Hill, North Carolina 27514
(919) 419-7500
(919) 419-7501 Fax*

4. Name, address, telephone number, and State certification number of laboratory:

*HydroLogic, Inc.
2500 Gateway Centre Boulevard, Suite 900
Morrisville, North Carolina 27560
(919) 380-9699
(919) 380-9717 Fax
N.C. Certification Numbers - Drinking Water 47, Wastewater 399*

D. UST Information

TABLE 1. CHARACTERISTICS OF OLD TANK

Tank Number	Installation Dates	Size in Gallons	Tank Dimensions	Last Contents	Previous Contents (if any)
<i>1</i>	<i>1989</i>	<i>560</i>	<i>48" x 64"</i>	<i>Diesel</i>	<i>n/a</i>

E. Site Characteristics

1. Describe any past releases at the site:

There are no known releases at the site from the tank system. In 1989, a previous UST was removed from the site. Reportedly, the former tank was removed because water regularly collected in the tank. The former tank was reportedly located in the same approximate location as the tank that is the subject of this report.

2. Is the facility active or inactive at this time? If the facility is inactive note the last time the USTs were in operation.

The facility is currently active.

3. Describe surrounding property use (for example, residential, commercial, farming, etc.):

North: The property is bordered to the north by S.R. 2352. Wooded undeveloped property is located north of the road.

East: Properties to the east of the site are open, grassed fields.

South: Properties to the south of the site are open, grassed fields.

West: Properties to the west of the site are open, grassed fields.

4. Describe site geology/hydrogeology:

The Silk Hope site is located in the Piedmont Physiographic Province of North Carolina as observed from a review of the Geologic Map of North Carolina and is underlain by felsic metavolcanic rock. Soils in the trench consisted of greenish-grey silts and clays to about six feet. What appeared to be shallow ground water was encountered approximately six feet below ground surface.

II. CLOSURE PROCEDURES

A. Describe preparations for closure including the steps taken to notify authorities, permits obtained and the steps taken to clean and purge the tanks:

Prior to closure, the closure contractor submitted form GWIUST-3 to the Raleigh Regional Office of the North Carolina Department of Environment, Health and Natural Resources (DEHNR). A copy of GWIUST-3 is included in Appendix A.

Residual fuel was removed from the tank. Immediately prior to implementation of excavation, vapors within the tank were checked for oxygen content and lower explosive limit (LEL). Based on results of this evaluation, no purging of tank vapors was deemed necessary.

B. Note the amount of residual material pumped from the tank(s):

It is reported that approximately 377 gallons of diesel fuel were pumped from the 560 gallon tank prior to the removal off-site.

C. Describe the storage, sampling, and disposal of the residual material:

Residual fuel was pumped into a tanker truck and transported off-site by S&H Oil Company Inc., of Siler City, North Carolina. The fuel was reportedly transported to a large quantity bulk storage tank located at the S&H facility for temporary storage until it could be subsequently sold for recycling purposes.

or allocated for commercial use once the bulk tank is filled. A waste fuel manifest is included as Appendix C.

D. Excavation

- 1. Describe excavation procedures noting the condition of the soils and the dimensions of the excavation in relation to the tanks, piping, and/or pumps:**

Excavation was conducted using a John Deere 310-D backhoe. Soils in the excavation were characterized as gray-brown silts and clays from the surface to a depth of approximately six feet. Gray felsic metavolcanic rock was encountered below a depth of six feet. Following removal of the tank, piping, and other equipment associated with the UST, the excavation was roughly circular in shape with a diameter of approximately 13 feet, 16 feet long, eight feet deep, generally centered around the UST.

- 2. Note the depth of tank burial(s) (from land surface to top of tank):**

The top of the tank was buried approximately 4' 6" below the surface.

- 3. Quantity of soil removed:**

In order to remove the tank, approximately 40 yds³ of soil were removed from above and along side of the UST. Staining of the soils was observed in several localities, and the soil was field screened with an OVA. The OVA displayed readings above background levels in several samples (see Table 2).

- 4. Describe soil type(s):**

Soils are described in Section D. 1. above.

- 5. Type and source of backfill used:**

Approximately 40 yds³ of soil excavated from above and along side of the UST was spread out along the surface of the ground adjacent to the excavation pit. Approximately 45 yds³ of crusher-run gravel was used to bring the excavation up to grade.

E. Contaminated Soil

- 1. Describe how the extent of soil excavation was determined:**

Other than the soil excavated to remove the UST, no additional soil was removed from the excavation. However, excessive water in the soils surrounding the UST caused the soils to cave in extensively; therefore, more

soils than normal were removed during the UST removal process. Observations coupled with OVA field testing assisted in this determination.

2. Describe method of temporary storage, sampling, and treatment/disposal of soil:

Soils collected from beneath the fuel lines were collected by a decontaminated stainless steel hand spade and placed into a glass sample container prior to performance of sample labeling and storage on ice. Soils collected from beneath the corners of the excavation pit were accessed by the bucket on the front-end loader. Samples within the bucket were collected by hand with a stainless steel hand-spade as described above.

Soils excavated and collected via the front-end loader were temporarily stored on-site and placed on plastic sheeting. Stockpiled soils were spread on-site, fertilized, seeded, and covered with straw.

III. SITE INVESTIGATION

A. Provide information on field screening and observations, include methods used to calibrate field screening instrument(s):

Soil samples from the excavation were evaluated to identify the presence and/or absence of petroleum products using a combination of field head-space screening with an OVA and confirmatory laboratory analyses.

The samples were field-screened using a head-space method modified from a procedure described by Robbins and others (1989). The head-space method involves placing a measured amount of a representative soil sample in a zip-lock plastic bag and then inflating the bag with air. After a five-minute waiting period at an ambient temperature greater than 70° F, as necessary in order to allow volatile organic compounds to vaporize into the head space of the bag, a Foxboro Model 128 organic vapor analyzer (OVA) was used to analyze the air within the bag for the presence of compounds that were within the detection limits of the OVA. Results of field screening of soils are included in Table 2.

Prior to implementation of field screening, the OVA 128 was calibrated using 10 and 100 ppm span gases.

B. Describe soil sampling points and sampling procedures used:

The sampling locations are shown on Figure 2. Table 2 provides information relative to the sample identification and depth of sample below the ground surface, sampling location, sampling method, field-screening results, analyses conducted, and results.

TABLE 2. SAMPLE CHARACTERISTICS AND RESULTS

Sample I.D. and Depth (Below Ground Surface)	Sample Location	Sampling Method	Field Screening Results (ppm)	Method 8015M High Fraction (mg/kg)	Method 8015M Low Fraction (mg/kg)
<i>AT&T SILK-1 n/a</i>	<i>Sample of Excavated Soils</i>	<i>Grab</i>	<i>150</i>	<i>53.7</i>	<i><2.0</i>
<i>AT&T SILK-2 6'</i>	<i>Excavation Floor Northwest Corner</i>	<i>Grab</i>	<i>80</i>	<i><10.0</i>	<i><2.0</i>
<i>AT&T SILK-3 6'</i>	<i>Excavation Floor Northeast Corner</i>	<i>Grab</i>	<i>200</i>	<i><10.0</i>	<i><2.0</i>
<i>AT&T SILK-4 6'</i>	<i>Excavation Floor Southeast Corner</i>	<i>Grab</i>	<i>300</i>	<i><10.0</i>	<i><2.0</i>
<i>AT&T SILK-5 6'</i>	<i>Excavation Floor Southwest Corner</i>	<i>Grab</i>	<i>250</i>	<i>34.8</i>	<i><2.0</i>
<i>AT&T SILK-6 Stockpile</i>	<i>Sample of Excavated Soils</i>	<i>Composite</i>	<i>n/a</i>	<i><10.0</i>	<i><2.0</i>
<i>AT&T SILK-7 2'</i>	<i>20' Lateral Line Sample</i>	<i>Grab</i>	<i>230</i>	<i>52.8</i>	<i><2.0</i>
<i>AT&T SILK-8 2'</i>	<i>10' Lateral Line Sample</i>	<i>Grab</i>	<i>115</i>	<i>27.9</i>	<i><2.0</i>
<i>AT&T SILK-9 2'</i>	<i>Confirmatory Sample of AT&T SILK-8</i>	<i>Grab</i>	<i>n/a</i>	<i>261</i>	<i><2.0</i>

C. Describe ground water or surface water sampling procedures used

Shallow ground water was encountered during the tank removal at approximately six feet below ground surface. A water sample was collected in a large stainless-steel bowl directly from the excavation.

The ground water sample was analyzed for benzene, toluene, ethylbenzene and total xylenes using EPA Method 602 and semi-volatile compounds (base/neutral) using

EPA Method 8270, including evaluation of tentatively identified compounds (TICs). Table 3 lists the compounds identified in the sample as well as established standards.

TABLE 3. GROUND WATER SAMPLING RESULTS

<i>Method/Compound</i>	<i>DEHNR 2L Standard (ug/L)</i>	<i>Concentration (ug/L)</i>
<i>EPA Method 602</i>		
<i>Toluene</i>	<i>1000</i>	<i>1.12</i>
<i>Ethylbenzene</i>	<i>29</i>	<i>7.81</i>
<i>Xylenes (Total)</i>	<i>530</i>	<i>6.45</i>
<i>EPA Method 8270</i>		
<i>2-Methylnaphthalene</i>	<i>-</i>	<i>28.4</i>
<i>1H-Idene, 1-Ethylidene (TIC)</i>	<i>-</i>	<i>50.0</i>
<i>Napthalene, 1,8-Dimethyl (TIC)</i>	<i>-</i>	<i>96.0</i>
<i>Heptadecane, 2,6-Dimethyl (TIC)</i>	<i>-</i>	<i>27.0</i>

D. Quality control measures

- Describe sample handling procedures including sample preservation and transportation:

Samples were collected in accordance with DEHNR and EPA procedures. To summarize these procedures, samples were collected via hand-spade for the fuel line samples following the any pre-requisite digging via a shovel or front-end loader as needed to access the specific sample location beneath the fuel lines. Grab samples such as those collected in the pit at the four corners beneath the old tank, were accessed by the bucket of the front-end loader and specific samples were collected via a hand-spade and subsequently placed in glass containers. Composite samples were also accessed by the front-end loader bucket and subsequently collected by a decontaminated hand-spade, placed in a decontaminated stainless steel mixing bowl, and homogenized prior to placement in the sample containers. Sample labels were completed at the time of sampling and affixed to each container to identify the sample number, collector's name, date, and time of collection, location of sampling point, and requested analysis.

A chain-of-custody record (COC) was completed and accompanied each shipping cooler to provide documentation and to trace sample possession (see Appendix D). After the sample bottles for a given sample site were filled, they were placed in a

shipping cooler and covered with ice packs or crushed ice contained in plastic bags. Each sample container was cushioned and sealed in a cooler container for hand delivery to the laboratory.

All information pertinent to sampling (including field-instrument calibration data) was recorded in a field log book, with consecutively numbered pages.

Entries in the project log book were made in ink and included, as a minimum, a description of all activities, individuals involved, date and time of sampling, weather conditions, any problems, and all field measurements.

- Decontamination procedures:

Equipment used for sampling was decontaminated prior to use at the site. Smaller equipment such as stainless steel or teflon spatulas and spoons, stainless steel mixing pans, and other implements that come into contact with samples were decontaminated prior to use at each sampling location using the following procedure:

Step 1 — Wash and scrub with low phosphate detergent in tap water

Step 2 — Rinse with tap water

Step 3 — Rinse with acetone

Step 4 — Rinse with distilled water

Step 5 — Air-dry on clean polyethylene sheeting

Step 6 — Wrap in aluminum foil, shiny side out for transport to sampling location, as needed

- Describe time and date samples were collected and date submitted to lab:

As shown on the attached COC, all of the soil samples were collected on September 13, 1996. The samples were stored in an iced cooler immediately following collection and maintained in this fashion until they were submitted to the laboratory. The samples were delivered to Hydrologic Laboratories on Monday September 16, 1996 by Mr. Larry Daw/TRC where they were received by Mr.C.W. Sweatman/Hydrologic Laboratories at 5:30 pm.

- Describe samples collected for quality control purposes:

One confirmatory sample was collected for quality control purposes. The sample, AT&T SILK-9, was a confirmation of sample AT&T SILK-8. Soil for the sample was collected and placed in a glass sample jar.

- Discuss how results of quality control samples may have affected the interpretation of soil, ground water, or surface water sample results:

Confirmatory soil samples analyzed obtained dissimilar results (i.e., 27.9 ppm high fraction in AT&T-SILK-8 and 261 ppm high fraction in AT&T-SILK-9). This sample displayed a very dense composition with a high clay content, thus the difference in these results is likely due to insufficient mixing prior to sample splitting. These results do not significantly affect interpretation of other soil samples collected. No quality control samples were collected for water analyses. Analytical results for samples collected and subsequently transported to the analytical laboratory are shown in Appendix E.

E. Investigation Results

- Describe results of Site Sensitivity Evaluation (SSE)

The site met the criteria for performance of a Site Sensitivity Evaluation (SSE) as defined in Section 6.0 of the North Carolina Groundwater Section's Guidelines for the Investigation and Remediation of Soils and Groundwater. Results of the SSE suggest that the site is classified as a Category B site. The total Site Characteristics Score for this site was 100 yielding a low boiling point (gasoline) cleanup level of 40 ppm and a high boiling point clean-up level of 160 ppm (Appendix F).

- Describe methods of analyses used (include U.S. EPA method number)

As shown on Table 2 and the laboratory data sheets included in Appendix E, soils samples collected from the site were analyzed for total petroleum hydrocarbon using EPA Method 8015M. Sample preparation used California Method 5030 for low boiling point fuels and California Method 3550 for high boiling point fuels. Ground water samples were analyzed for BTEX using EPA Method 602 and semi-volatile compounds (base/neutral) using EPA Method 8270, including TICs.

- Describe analytical results for samples; discuss in relation to site specific cleanup levels or action level, as appropriate:

As shown in Table 2, nine soil samples were collected at the site. Four soil samples were collected within the tank excavation area. Two additional samples (and one confirmatory sample) were collected along the fuel supply/return line routes, and two samples of excavated soils were collected.

None of the soil samples contained concentrations of low fraction parameters above detection limits. Several samples including: AT&T-SILK-1; AT&T-SILK-5; AT&T-SILK-7, AT&T-SILK-8, and AT&T-SILK-9 contained concentrations of high fraction parameters above detection limits (see Table 2). Of these, AT&T-SILK-9 displayed the highest concentrations at 261 ppm. This result was discounted

however due to potential laboratory errors or, very localized "micro-variances" within the confines of the hand-spade sample used to collect the grab sample.

In comparing the analytical results to the SSE clean-up levels required by the North Carolina Groundwater Section's Guidelines for the Investigation and Remediation of Soils and Groundwater, it appears that one sample (AT&T-SILK-9) a confirmatory sample of AT&T-SILK-8, displayed concentrations of high fraction constituents which are in excess of the SSE specific clean-up levels (i.e., 160 ppm). AT&T-SILK-8, a confirmatory sample which was collected in the same general location, contained lower concentrations well beneath the designated SSE clean-up level.

The water sample collected from the excavation contained toluene, ethylbenzene, xylenes, and several semi-volatile compounds above the laboratory detection limits. None of the concentrations of compounds identified in the ground water sample exceeded established 2L Standards.

IV. CONCLUSIONS AND RECOMMENDATIONS

The results of this investigation identified petroleum contamination at the site in several soil samples as well as in a shallow ground water sample. Soil samples were collected in the areas most likely to have petroleum contamination (i.e., below the tank and directly below the supply lines) and as a result, the sampling confirmed an apparent release.

*As referenced, there was evidence that suggests ground water may be impacted by petroleum. Additional investigation and/or remediation is recommended at the site to: (1) better define the nature of the shallow ground water; (2) define the potential vertical and lateral extent of contamination, and; (3) to implement corrective measures, as needed. TRC recommends that a copy of this report be forwarded to the Raleigh Regional Office** of the DEHNR for their review.*

*** Although the site is located within the Winston-Salem Regional District the Raleigh Regional Office was initially contacted by Johnson, Spellman & Associates, Inc., prior to commencement of the project for required State notification requirements. Based on discussions with the RRO, and for continuity, it was suggested that TRC continue to forward correspondence to the office which initiated the documentation.*

V. SIGNATURE OF LICENSED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER

Professional Geologist License #: _____

M. J. Babuin

Professional Engineer Registration #: _____

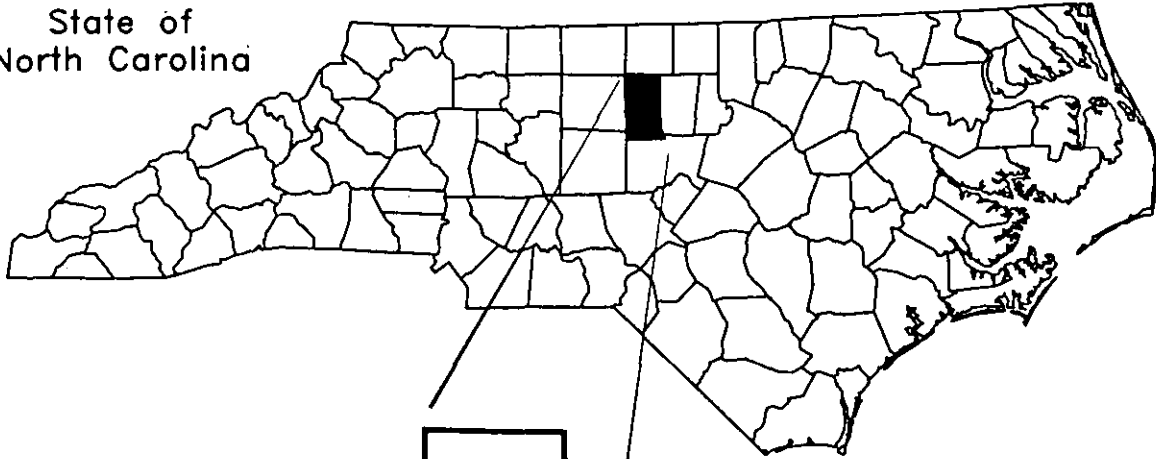
M.L. Babuin, P.G.

North Carolina License No. 651

AIPG Certified Professional Geologist No. 9295

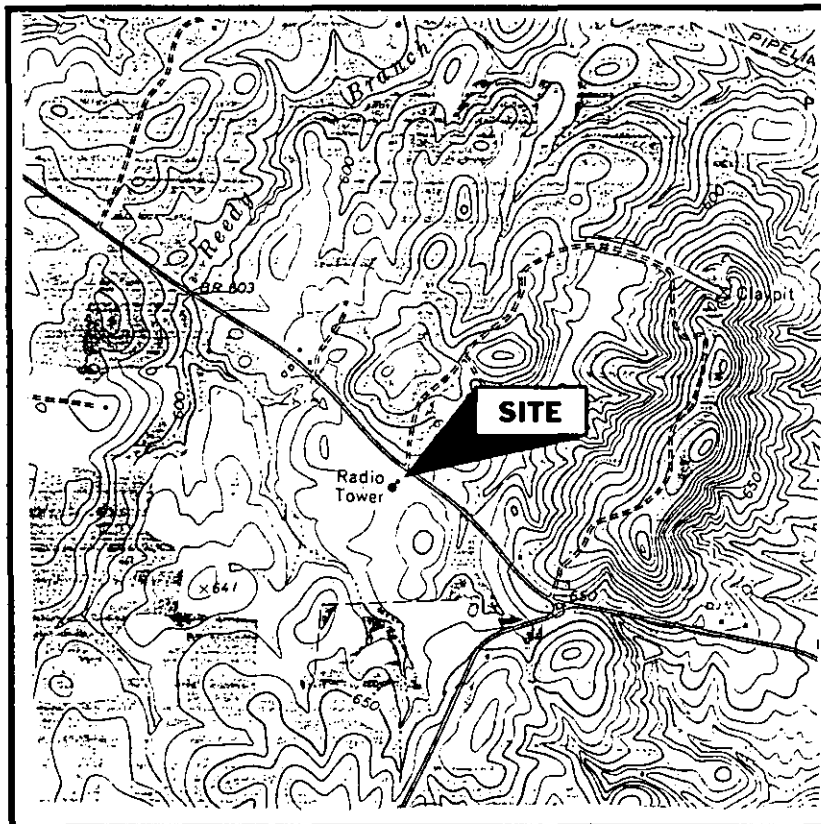
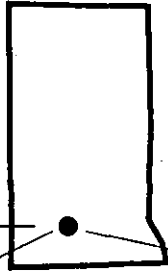


State of
North Carolina



Alamance
County

Silk Hope



Source: U.S.G.S. Crutchfield Crossroads
Quadrangle (1974), Scale: 1"=2000'

TRC Environmental
Corporation

6340 Quadrangle Drive, Suite 200
Chapel Hill, NC 27614
Telephone 919-419-7500
Facsimile 919-419-7501

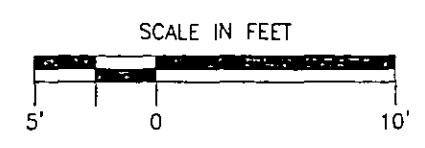
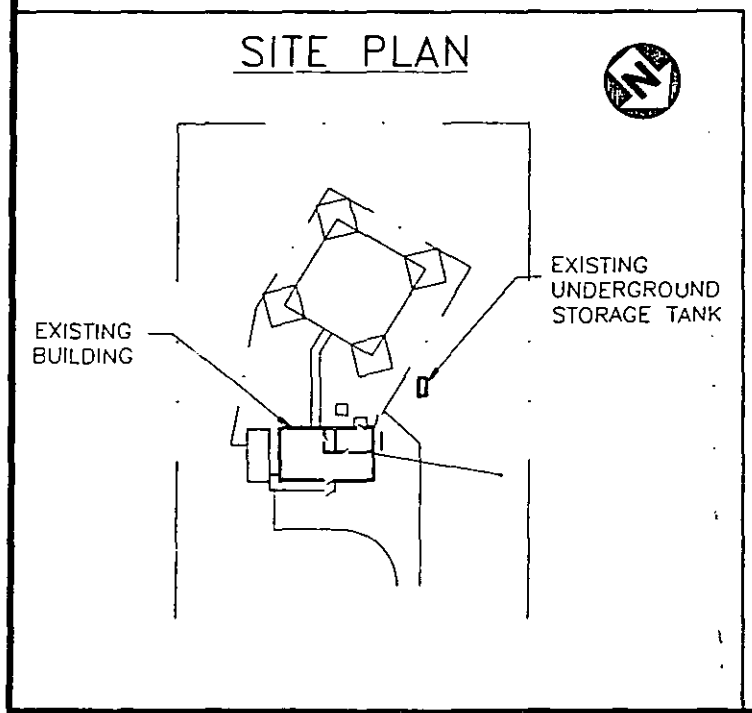
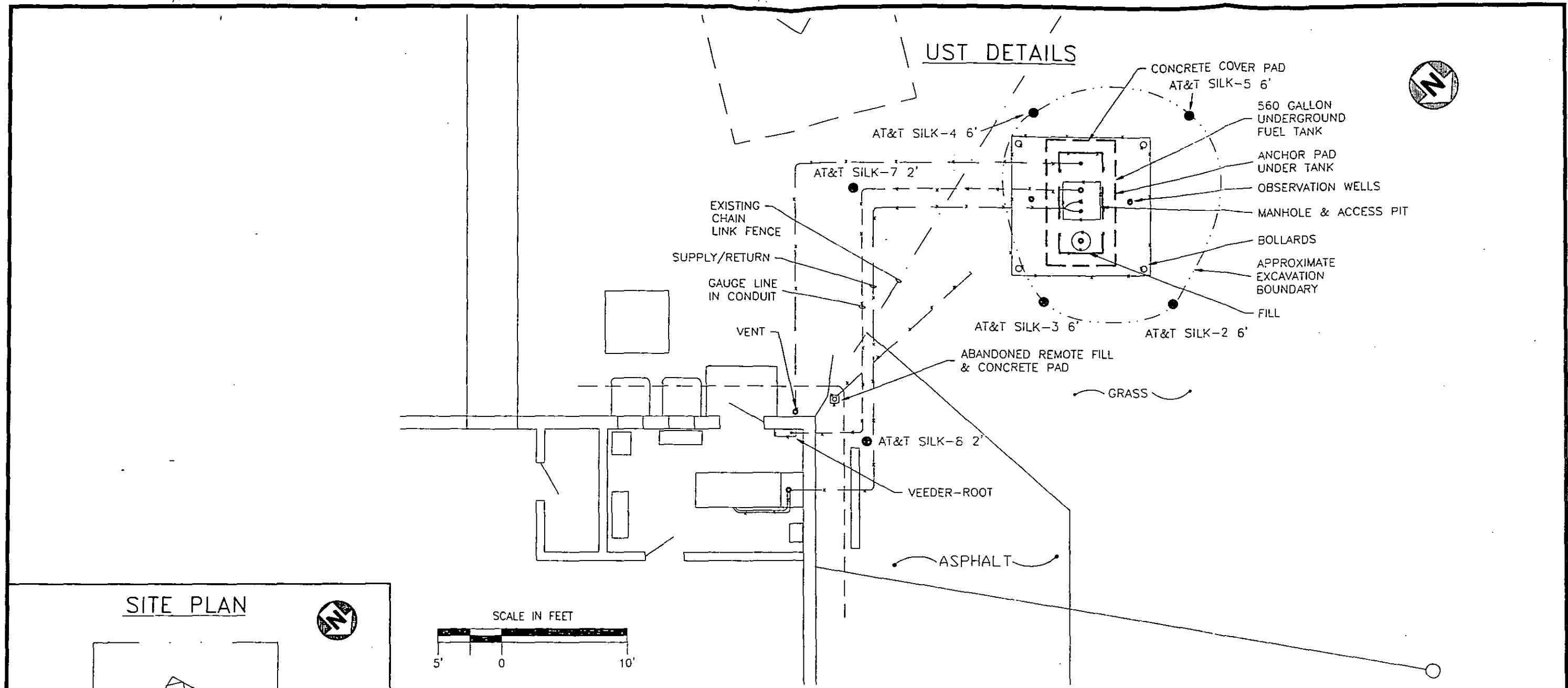
Figure 1
SITE LOCATION

A T & T Communications, Inc.
Silk Hope, North Carolina

Drawn: B. Newman
Date: 10-18-96

Project No. 21284-0030-00005
Drawing No. V60016A

Rev.
0



TRC Environmental Corporation 6340 Quadrangle Drive, Suite 200
Chapel Hill, NC 27514
(919) 419-7500

Figure 2
SITE DETAILS

A T & T Communications, Inc.
Silk Hope, NC

Project Manager: <i>Mike Babuin</i>	Project Number: 21284-0030-00005	Initial Release Date: 10/96
Designed by: MB	Drawn by: <i>B.L. Newman</i>	Checked by: MB
Drawing Number: A60054B		Rev 0



Appendix A

Notification of Intent to Close (GW/UST-3)

GW/UST-3 Notice of Intent: UST Permanent Closure or Change-In-Service

FOR TANKS IN	Return Completed Form To: The appropriate DEM Regional Office according to the county of the facility's location. [SEE REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].	State Use Only I. D. Number _____ Date Received _____
---------------------	---	---

INSTRUCTIONS
 Complete and return five (5) working days prior to closure or change-in-service.

I. OWNERSHIP OF TANK(S)	II. LOCATION OF TANK(S)
Tank Owner Name: <u>AT&T Communications, Inc.</u> <small>(Corporation, Individual, Public Agency, or Other Entity)</small> Street Address: <u>1200 Peachtree, Promenade II</u> County: <u>Fulton</u> City: <u>Atlanta</u> State: <u>GA</u> Zip Code: <u>30309</u> Tele. No. (Area Code): <u>404-810-4505</u>	Facility Name or Company: <u>SILK HOPE RADIO RELAY STATION</u> Facility ID # (if available): <u>0-024105</u> Street Address or State Road: <u>S.R. 2352</u> County: <u>CHATHAM</u> City: <u>SILK HOPE</u> Zip Code: _____ Tele. No. (Area Code): <u>404-810-4505</u>

III. CONTACT PERSON

Name: Larry McKelvy Job Title: Supervisor-Bldg. Telephone Number: (404)-810-4505

- IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE**
- | | | |
|---|--|---|
| 1. Contact Local Fire Marshall.
2. Plan the entire closure event.
3. Conduct Site Soil Assessments.
4. Removing Tanks or Closing in Place refer to API Publications 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used | "Underground Petroleum Storage Tanks".
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Fill out form GW/UST-2 "Site Investigation Report for Permanent Closure" and return within 30 days following the site investigation. | 7. The site assessment portion of the tank closure must be conducted under the supervision of a Professional Engineer or Licensed Geologist. After January 1, 1994, all closure site assessment reports must be signed and sealed by a P.E. or L.G.
8. Keep closure records for 3 years. |
|---|--|---|

V. WORK TO BE PERFORMED BY:

Contractor Name: Under Construction, Co.
 Address: 7210 Old Taft Rd. State: Oklahoma Zip Code: 74402
 Contact: Greg Adkins Phone: 918-683-5028
 Primary Consultant: Johnson, Spellman & Assoc. Phone: 770-447-4555

VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY		
			CLOSURE		CHANGE-IN-SERVICE
			Removal	Abandonment In Place	New Contents Stored
1	560	DIESEL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title: Larry E. McKelvy - Supervisor Building Engineering Scheduled Removal Date: 08/20/96
 Signature: [Signature] Date Submitted: 7-29-96
Scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date.

Appendix B

**Site Investigation Report for Permanent Closure or
Change-in-Service of UST (GW/UST-2)**

Not Provided or Included

Appendix C

Soil, Water, and Sludge Disposal Manifests



Mr. or Mrs. ~~XX~~

Address _____

This is The Only Itemized Statement You Will Receive

Our charge sale terms will be Net, payable thirty days from date of purchase. Charges over thirty days old will be subject to a service charge of 1½% interest per month, which is an ANNUAL INTEREST RATE OF EIGHTEEN (18) percent.

OPERATOR <i>J. M.</i>	Cash	TRUCK NO.	TIME A.M.
	Charge		P.M.

GALLONS DELIVERED → _____

KEROSENE FUEL OIL NO. _____

PREVIOUS SALE NO.	CODE	GALLON READING—START
-------------------	------	----------------------

THIS PRODUCT IS DYED DIESEL FUEL

PENALTY FOR TAXABLE USE

YOUR SALE NO.	GALLON READING—FINISH
---------------	-----------------------

CUSTOMER SIGNATURE _____

Date 9-12 1995 INVOICE NO. → **34302**

GALS. READING — START	000000.0
GALS. READING — FINISH	000376.7
SALES SEQUENCE NUMBER	00000001
PRICE PER GALLON — CENTS	000000.0
PRODUCT COST	00000.00
TAX	00000.00
TOTAL PRICE	00000.00

FORM 180 COM 3

Appendix D
Chain-of-Custody Records

HYDROLOGIC, INC.

Chain of Custody Record

Page 1 of 2

- 122 Lyman Street Asheville, NC 28801 (704) 254-9169 FAX (704) 252-9711
- 410 New Salem Highway #106 Murfreesboro, TN 37129 (615) 848-6810 FAX (615) 848-6805
- 1491 Twilight Trail Frankfort, KY 40601 (502) 223-0251 FAX (502) 875-8016
- 2003 North Pine Street Lumberton, NC 28358 (910) 738-6190 FAX (910) 671-8837
- 263 Branchview Drive SE Concord, NC 28025 (704) 786-3122 FAX (704) 786-2999

Mc
(91
FA

96-2884

#103

P. 01/04
919 380 9717

HYDROLOGIC-MORRISVILLE

19:19
SEP-16-1996

Client: TRC Environmental Corp Project No.: 21284-0030-00005

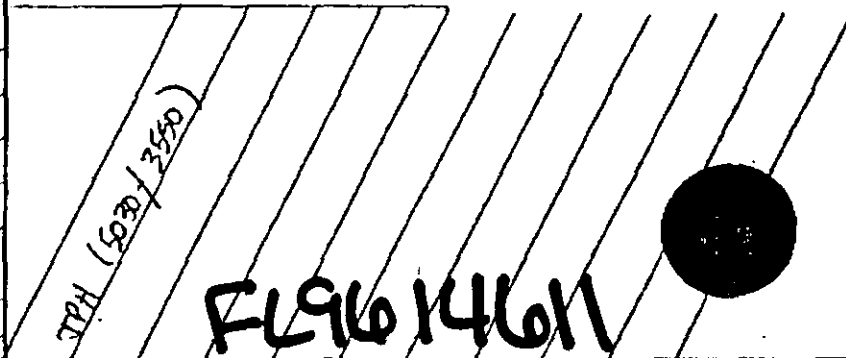
Report Address: 6340 Quakerly Dr, Invoice Address: Same

Attn: Larry Orr Attn:

Phone No.: (919) 419-7583

Fax No.: (919) 419-7501 P.O. No.:

REQUESTED I



LAB CODE I.D.

- A - Asheville, NC
- C - Concord, NC
- D - Denver, CO
- G - Macon, GA
- K - Frankfort, KY
- L - Lumberton, NC
- M - Morrisville, NC
- N - Naples, FL
- S - Subcontracted
- T - Murfreesboro, TN

TURNAROUND TIME

24 Hours 48 Hours Date Needed: _____

5 Days 10 Days Other _____

Sample ID	Date	Time	Comp/Grab	Matrix	Preserv.	Containers	REMARKS
TET-SLK-1 ^{Deck}	9-13-96	1245	Grab	Soil	-	1 X	
TET-SLK-2 5'	"	1430	"	"	-	1 X	
TET-SLK-3 6'	"	1440	"	"	-	1 X	
TET-SLK-4 6'	"	1445	"	"	-	1 X	
TET-SLK-5 6'		1500	"	"	-	1 X	
TET-SLK-6 6'				Soil	-	1	
TET-SLK-7 2'		1710	"	"	-	1 X	
TET-SLK-8 2'		1725	"	"	-	1 X	
TET-SLK-9 2'		1730	"	"	-	1 X	

Lab Use Only	Date	Time	Signature	Date	Time	Signature	Date	Time	Signature
--------------	------	------	-----------	------	------	-----------	------	------	-----------

COMMENTS:

Relinquished By: <u>[Signature]</u>	Date	Time	Received By: <u>[Signature]</u>	Date	Time
Relinquished By: <u>[Signature]</u>	9/16/96	5:30P	Received By:		
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time

Appendix E
Laboratory Analytical Records

HYDROLOGIC, INC.

September 20, 1996

REPORTING:

HydroLogic-Morris., Inc.
2500 Gateway Centre
Suite #900
Morrisville, NC 27560

INVOICING:

HydroLogic-Morris., Inc.
2500 Gateway Centre
Suite #900
Morrisville, NC 27560

PROJECT NUMBER: FL9614611

DATE COMPLETED: September 20, 1996

DATE RECEIVED: September 17, 1996

PROJECT DESCRIPTION:

TRC Env. Corp./21284-0030-00005-- 9 soil samples analyzed for TPH 3550/5030 and 1 water sample analyzed for 602 BTEX/8270BN + TIC.

Enclosed is the laboratory report for the project described above. If you have any questions or if we can be of further assistance, please feel free to contact Beate Lynn at 1-800-728-2251. We appreciate your business and look forward to serving you again soon.

Respectfully,



Walter Hogg
QA/QC Officer

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614611
SAMPLE IDENTIFICATION: AT&T-SILK-1
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/18/96 9/18/96

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	53.7
Surrogate Recoveries: Nonane			73%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			104%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614612
SAMPLE IDENTIFICATION: AT&T-SILK-2
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/18/96 9/18/96

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	BDL
Surrogate Recoveries: Nonane			77%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			101%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614613
SAMPLE IDENTIFICATION: AT&T-SILK-3
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/18/96 9/18/96

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	BDL
Surrogate Recoveries: Nonane			76%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			107%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614614
SAMPLE IDENTIFICATION: AT&T-SILK-4
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/19/96 9/18/96

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	BDL
Surrogate Recoveries: Nonane			78%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			107%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614615
SAMPLE IDENTIFICATION: AT&T-SILK-5
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/19/96 8/18/96

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	34.8
Surrogate Recoveries: Nonane			99%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			100%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614616
SAMPLE IDENTIFICATION: AT&T-SILK-7
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/19/96 9/18/96

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	52.8
Surrogate Recoveries: Nonane			89%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			97%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614617
SAMPLE IDENTIFICATION: AT&T-SILK-8
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/19/96 9/18/96

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	27.9
Surrogate Recoveries: Nonane			76%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			101%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614618
SAMPLE IDENTIFICATION: AT&T-SILK-9
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/19/96 9/18/96

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	261
Surrogate Recoveries: Nonane			82%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			107%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614619
SAMPLE IDENTIFICATION: AT&T-SILK-STOCKPILE
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/19/96

AT&T-SILK-6

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		10.0	BDL
Surrogate Recoveries: Nonane			87%
Gasoline		2.0	BDL
Surrogate Recovery: BFB			93%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614620
SAMPLE IDENTIFICATION: AT&T-SILK-WATER
DATE SAMPLED: 9/13/96
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 9/19/96

METHOD EPA 602

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Benzene	71-43-2	1.0	BDL
Toluene	108-88-3	1.0	1.12
Ethylbenzene	100-41-4	1.0	7.81
Xylenes (Total)	1330-20-7	1.0	6.45
Surrogate Recovery: Bromofluorobenzene			108%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614620
SAMPLE IDENTIFICATION: AT&T-SILK-WATER
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/19/96

METHOD EPA 8270

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Acenaphthene	83-32-9	10.0	BDL
Acenaphthylene	208-96-8	10.0	BDL
Aniline	62-53-3	10.0	BDL
Anthracene	120-12-7	10.0	BDL
Benzidine	92-87-5	10.0	BDL
Benzoic Acid	65-85-0	50.0	BDL
Benzo (a) Anthracene	56-55-3	10.0	BDL
Benzo (b) Fluoranthene	205-99-2	10.0	BDL
Benzo (k) Fluoranthene	207-08-9	10.0	BDL
Benzo (g, h, i) Perylene	191-24-2	10.0	BDL
Benzo (a) Pyrene	50-32-8	10.0	BDL
Benzyl Alcohol	100-51-6	20.0	BDL
Bis (2-Chloroethoxy) Methane	111-91-1	10.0	BDL
Bis (2-Chloroethyl) Ether	111-44-4	10.0	BDL
Bis (2-Chloroisopropyl) Ether	39638-32-9	10.0	BDL
Bis (2-Ethylhexyl) Phthalate	117-81-7	10.0	BDL
4-Bromophenyl Phenyl Ether	101-55-3	10.0	BDL
Butyl Benzyl Phthalate	85-68-7	10.0	BDL
4-Chloroaniline	106-47-8	20.0	BDL
2-Chloronaphthalene	91-58-7	10.0	BDL
4-Chlorophenyl Phenyl Ether	7005-72-3	10.0	BDL
Chrysene	218-01-9	10.0	BDL
Dibenz (a, h) Anthracene	53-70-3	10.0	BDL
Dibenzofuran	132-64-9	10.0	BDL
Di-N-Butylphthalate	84-74-2	10.0	BDL

HYDROLOGIC, INC.

Page 2 continued

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp.121284-0030-00005
HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC SAMPLE NUMBER: 9614620
SAMPLE IDENTIFICATION: AT&T-SILK-WATER
DATE SAMPLED: 9/13/96

METHOD EPA 8270

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
1,3-Dichlorobenzene	541-73-1	10.0	BDL
1,4-Dichlorobenzene	106-46-7	10.0	BDL
1,2-Dichlorobenzene	95-50-1	10.0	BDL
3,3'-Dichlorobenzidine	91-94-1	20.0	BDL
Diethylphthalate	84-66-2	10.0	BDL
Dimethylphthalate	131-11-3	10.0	BDL
2,4-Dinitrotoluene	121-14-2	10.0	BDL
2,6-Dinitrotoluene	606-20-2	10.0	BDL
Diphenylamine	122-39-4	20.0	BDL
Di-N-Octylphthalate	117-84-0	10.0	BDL
Fluoranthene	206-44-0	10.0	BDL
Fluorene	86-73-7	10.0	BDL
Hexachlorobenzene	118-74-1	10.0	BDL
Hexachlorobutadiene	87-68-3	10.0	BDL
Hexachlorocyclopentadiene	77-47-4	10.0	BDL
Hexachloroethane	67-72-1	10.0	BDL
Indeno(1,2,3-cd) Pyrene	193-39-5	10.0	BDL
Isophorone	78-59-1	10.0	BDL
2-Methylnaphthalene	91-57-6	10.0	28.4
Naphthalene	91-20-3	10.0	BDL
2-Nitroaniline	88-74-4	50.0	BDL
3-Nitroaniline	99-09-2	50.0	BDL
4-Nitroaniline	100-01-6	50.0	BDL
Nitrobenzene	98-95-3	10.0	BDL

HYDROLOGIC, INC.

Page 3 continued

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp.121284-0030-00005
HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC SAMPLE NUMBER: 9614620
SAMPLE IDENTIFICATION: AT&T-SILK-WATER
DATE SAMPLED: 9/13/96

METHOD EPA 8270

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
N-Nitroso-Di-N-Butylamine	924-16-3	50.0	BDL
N-Nitrosodimethylamine	62-75-9	10.0	BDL
N-Nitrosodiphenylamine	86-30-6	10.0	BDL
N-Nitrosodipropylamine	621-64-7	10.0	BDL
Pentachlorobenzene	608-93-5	10.0	BDL
Phenacetin	62-44-2	50.0	BDL
Phenanthrene	85-01-8	10.0	BDL
Pyrene	129-00-0	10.0	BDL
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	BDL
1,2,4-Trichlorobenzene	120-82-1	10.0	BDL
Surrogate Recovery:			
2-Fluorobiphenyl			70%
Nitrobenzene-d5			80%
4-Terphenyl-D14			79%

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

HYDROLOGIC, INC.

COMPANY NAME: HydroLogic-Morris., Inc.
COMPANY PROJECT NUMBER: TRC Env. Corp 121284-0030-00005

HYDROLOGIC PROJECT NUMBER: FL9614611
HYDROLOGIC LAB I.D.#: 399
HYDROLOGIC SAMPLE NUMBER: 9614620
SAMPLE IDENTIFICATION: AT&T-SILK-WATER
DATE SAMPLED: 9/13/96
DATE EXTRACTED: 9/18/96
DATE/TIME ANALYZED: 9/19/96

TENTATIVELY IDENTIFIED COMPOUNDS (water samples)

<u>COMPOUND NAME</u>	<u>ESTIMATED SDL (ug/L)</u>	<u>ESTIMATED CONCENTRATION (ug/L)</u>
1H-INDENE, 1-ETHYLIDENE	5.0	50.0
NAPHTHALENE, 1,8,-DIMETHYL	5.0	96.0
HEPTADECANE, 2,6-DIMETHYL	5.0	27.0

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

Appendix F
Site Sensitivity Evaluation (SSE)

6.0 SITE SENSITIVITY EVALUATION FOR PETROLEUM CONTAMINATED SOIL

The purpose of the Site Sensitivity Evaluation (SSE) is to evaluate the sensitivity of groundwater to contamination by the release of petroleum related substances from the unsaturated zone. The "in-situ" soil cleanup levels, based on total petroleum fuel hydrocarbons (TPFH) and/or oil and grease (O&G), is determined by the SSE score; i.e., a higher SSE score requires a lower TPFH or O&G soil cleanup level. The SSE is only applicable for petroleum contaminated sites. (For cleanup procedures for soil contaminated by non-petroleum products, see Section 7).

If groundwater levels at the site are generally known or can be determined from field observations, one boring may be sufficient to obtain information necessary to complete the SSE. Also, if a release is discovered during a tank excavation, field investigations such as test pits, soil borings, or deeper excavation into the tank pit may provide pertinent information.

An SSE must be performed on all sites that meet the following criteria and must be conducted by a "qualified person" as described on the next page:

1. For sites in categories A and B (Table 3), where contaminated soils are located 5 feet or greater from the water table, top of bedrock or transmissive indurated sediments (shell limestone, fractured shale or sandstone, etc.). For sites in categories C, D, and E, (Table 3) an SSE must be performed in all cases, and
2. Contaminated soil does not create a human exposure pathway via ingestion, absorption, or inhalation.

NOTE: For sites where the criteria in 1 and 2 above are not met, the cleanup levels will be 10 ppm TPFH (EPA Method 5030), 40 ppm TPFH (EPA Method 3550), or 250 ppm O&G (EPA Method 9071) (unless DEM specifies otherwise). The references to EPA methods 5030 and 3550 throughout this document include the use of the California GC-FID method for TPFH and are referred to only as 5030 and 3550 for brevity.

The Site Sensitivity Evaluation will determine the soil cleanup levels that must be achieved for each site. Depending on the SSE scores, the final cleanup level for site soils may range between 10 to 300 ppm TPFH (for EPA Method 5030), 40 to 1200 ppm TPFH (for EPA Method 3550), and 250 to 3000 ppm O&G (for EPA Method 9071). Soils exhibiting contamination levels **greater than (>)** 300 ppm TPFH (for EPA Method 5030) or > 1200 ppm TPFH (for EPA Method 3550), or > 3000 ppm O&G (for EPA Method 9071) **must be remediated** (unless otherwise directed by DEM).

"Contaminated soil" in this document refers to soils containing greater than 10 ppm TPFH, as detected by EPA method 5030, greater than 40 ppm TPFH, as detected by EPA method 3550,

and greater than 250 ppm oil & grease, as detected by EPA method 9071. Remedial activities will generally not be required on soil exhibiting TPFH levels of less than or equal to (\leq) 10 ppm TPFH (EPA Method 5030), levels of \leq 40 ppm TPFH (EPA method 3550), or O&G levels of \leq 250 ppm (EPA Method 9071). However, in cases where groundwater has been contaminated or other special site conditions exist, a lower cleanup level and/or additional investigation may be required by the DEM.

In any case, whenever soil remediation is necessary, the treatment/disposal technologies that are used should be cost effective and provide adequate protection of human health and the environment.

6.1 SITE SENSITIVITY EVALUATION (SSE)

STEP 1: Site Characteristics Evaluation (See Table 1)

The sensitivity of groundwater to contamination from petroleum contaminated soils is evaluated by assessing five specific site characteristics. These characteristics are rated in accordance with their potential for contributing to the contamination of groundwater; the greater the potential contribution, the higher the score. The overall sensitivity of a site is determined by a numerical value representing the sum of values for each site characteristic.

Complete the SSE score sheet (Table 1) and proceed to step 2.

EXPLANATION OF SITE CHARACTERISTICS

Grain Size - The main objective of this analysis is to estimate soil permeability, potential for contaminant attenuation, and the presence of zones which restrict contaminant migration.

Sample Collection and Location: The sample collected for determination of grain size should be **representative** of the **predominant** soil type found in the area of the deepest contaminated soils located beneath the source, or in proximity to the source (in the apparent downgradient direction). Retaining this soil sample for future reference is advisable.

Sample Classification: The soil sample collected as described above should be classified according to the Unified Soil Classification System (ASTM designation D-2487) or the U.S. Department of Agriculture's method of soil classification. (A visual and textural field inspection will suffice.)

NOTE: *SSE's and sample collection and classification should be performed by a qualified person, who through a combination of training and experience is competent to evaluate the conditions existing at the contamination site, including the physical and chemical conditions of the subsurface. A geologist, soil scientist, or engineer experienced and active in the environmental field will be considered qualified.*

Relict structures, sedimentary structures, and/or textures present in the zone of contamination and underlying "soils"- These include structures in soils that may significantly increase the permeability such as quartz veins, fractures, or textures with coarse grained sandy beds in clays and silts, weathered coarse grained igneous intrusions, etc.

Distance from location of deepest contaminated soil to seasonal high water table - The determination may be based upon water levels in shallow water table wells in the immediate vicinity, mottling of the soil, an auger hole in the area of contamination or immediate vicinity, or specific knowledge of an area. If an auger hole penetrating the water table is made, it shall immediately be grouted with neat cement. Compaction of soil located on the ground surface is acceptable for borings that do not penetrate the water table as long as the compaction of the borehole soils has the same (or lower) permeability as the original soil.

Location of the water table relative to bedrock or transmissive indurated sediments - Is the top of bedrock or top of transmissive indurated sediments (shell limestone, fractured shale or sandstone, etc.) located closer to the surface than the water table?

Artificial conduits present within the zone of contamination - Are there water lines, sewer lines, telephone cables, product dispensing piping, etc., in the area of contamination?

STEP 2: Initial Cleanup Level (See Table 2)

Once the SSE score has been obtained, select the corresponding initial cleanup level based on the test method(s) (i.e. 5030, 3550 or 9071) for determining the type of fuel product (low or high boiling point, or heavy fuels) released on site. Proceed to step 3.

STEP 3: Final Cleanup Level (See Table 2, Table 3 [SSE Site Category Descriptions])

Determine and document the site category (A, B, C, D, or E) based on field evaluations. Use Tables 2 and 3 (SSE Site Category Descriptions), to select the final cleanup level. Based on the final cleanup level, determine the quantity of soil that requires remediation. Evaluate several treatment/disposal technologies and their associated costs.*

Submit data and other evidence used in the determination of the final cleanup level to the appropriate regional office. They will verify the site's final cleanup level upon review of the information provided. However, the responsible party should begin soil remediation without waiting for regional office verification. Upon completion of the SSE, the responsible party should immediately begin remediation of soils containing TPFH or O&G concentrations in excess of the final proposed cleanup level, utilizing cost effective treatment/disposal technologies that will provide protection of human health and the environment. **The responsible party should maintain accurate records of the remediation process and be prepared to justify all remediation activities and costs.**

*NOTE:*See Section 8 "Limiting Quantities and Costs of Soil Treatment/Disposal."*

Site Sensitivity Evaluation (SSE)

Site Characteristics Evaluation (Step 1)

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

Total Site Characteristics Score: 100

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

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

Site Sensitivity Evaluation (SSE)

Initial Cleanup Level
(Step 2)

Final Cleanup Level
(Step 3)

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

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

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

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

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

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

* See Site Category Descriptions, Table 3

TABLE 3

SSE SITE CATEGORY DESCRIPTIONS

CATEGORY A (Site meets any one of the criteria)

- ~~1.~~ Water supply well(s) contaminated and not served by accessible public water supply.
- ~~2.~~ Vapors present in confined areas at explosive or health concern levels.
- ~~3.~~ Treated surface water supply in violation of the safe drinking water standards.

CATEGORY B (Site meets any one of the criteria)

- ~~1.~~ Water supply well(s) contaminated, but served by accessible public water supply.
- 2. Water supply well(s) within 1500 feet of site, but not contaminated and not served by accessible public water supply.
- ~~3.~~ Vapors present in confined areas but not at explosive or health concern levels.

CATEGORY C (Site meets both of the criteria)

- 1. No known water supply well(s) contaminated.
- ~~2.~~ Water supply well(s) greater than 1500 feet from site but not served by accessible public water supply.

CATEGORY D (Site meets both of the criteria)

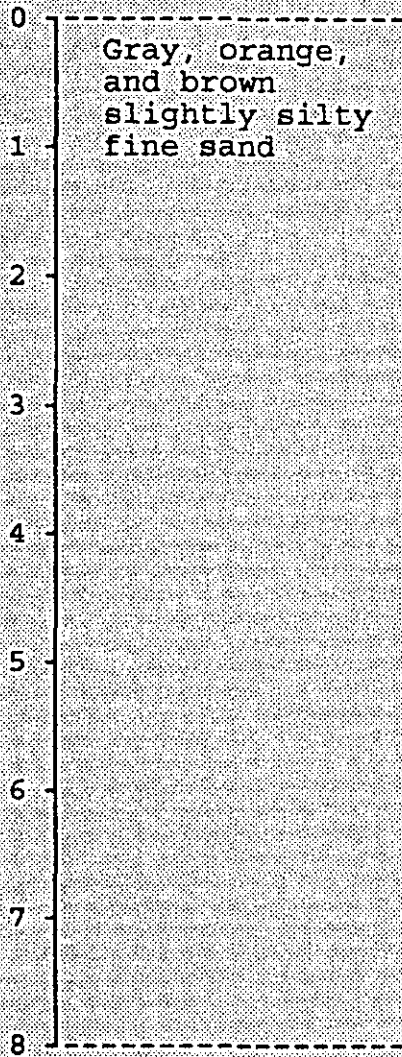
- 1. No known water supply well(s) contaminated.
- ~~2.~~ Water supply well(s) within 1500 feet of site but served by accessible public water supply.

CATEGORY E (Site meets both of the criteria)

- 1. No known water supply well(s) contaminated or within 1500 feet of site.
- 2. Area served by accessible public water supply.

Appendix G
Geologic Log for Excavation

Project #: 21284-0010-00001
Site: Silk Hope, North Carolina
TRC Inspector: J. Laurence Daw
Date: September 9, 1996



Appendix H
Certificate of Tank Disposal

Certificate Of Tank Disposal

Tank Location: CLARK ROAD SILK HOPE, N.C.

Site Address: CLARK RD

City/State: SILK HOPE, N.C.

Tank Serial # or Manufacturer's #: _____

Tank Size: 560 Type: FIBERGLASS COATED STEEL

Original Tank Contents: DIESEL

Tank Owner: AT&T Attn: _____

Owner Address: PO BOX 188, LAGRANGE, N.C. 28551

Project #: _____ Date Of Disposal: _____

Disposal Facility Address: 501 WEST RAILROAD ST.

City/State: LAGRANGE, N.C. 28551

Method Of Disposal: (Describe Cleaning, Destruction, & Disposal)

CUT BOTH ENDS OUT & CLEAN WITH DIO-SOLVUE

The Above Will Certify That The Structure Noted Above Was Disposed Of In The Manner Prescribed Under EPA Regulations.

Verified By: M. Chris Miller

Company Name: Unger Construction Company

Title: SUPERINTENDENT Date: 9-18-96

Appendix I
Additional Site Efforts

January 15, 1997

Mr. Ron Baxley/AT&T Companies
c/o Mr. John Ferguson, Regional Programs Manager
Hanson Engineers
47 Perimeter Ctr. East, Suite 280
Atlanta, Georgia 30346

RE: Summary Report of Well Installation and Sampling Activities at AT&T Silk Hope,
North Carolina, Radio Relay Station Site

Dear Mr. Baxley:

On November 27, 1996 TRC Environmental Corporation (TRC) mobilized on the referenced site for the purpose of installing a groundwater monitoring well to assess whether the former underground storage tank (UST) may have leaked and potentially impacted the surficial groundwaters. TRC utilized the services of a local drilling firm, Froehling & Robertson, Inc., (F&R) to install the monitoring well. The well was constructed per standard North Carolina Division of Water Quality (DWQ) well construction specifications following drilling activities. The borehole was constructed via a 4" hollow stem auger mounted on a CME 75 all terrain Vehicular (ATV) rig.

Strata encountered from ground surface to the basal depth of the borehole (10.5') included a light-brown colored sandy silt (0' - 3'); light-grey rhyolitic saprolite (3' - 10'); and a highly competent, light grey (unweathered) meta-igneous rock at 10' - 10.5' at borehole termination. No groundwater was encountered during drilling operations. The well was subsequently completed utilizing a two foot bentonite seal and a neat cement grout slurry as necessary to fill in the annular space adjacent to the polyvinyl chloride (PVC) inner well casing. An outer flush-mount protective casing and locking mechanism was installed at the surface.

Upon allowing the well to set-up (approximately one week), TRC remobilized at the site on December 2, 1996 in order to purge and subsequently sample the monitoring well. TRC proceeded to purge the well (in this instance) dry. Because the monitoring well recharged very slowly, it was not possible to extract a sample on this date. TRC re-mobilized early in the day on December 16, 1996 and was subsequently able to purge the well dry, wait several hours for it to recharge, and subsequently extract a sample of fresh formational waters accordingly. Following this, TRC submitted the samples to a certified laboratory for analysis.

TRC Environmental Corporation

Mr. Ron Baxley
January 15, 1997
Page 2

Monitoring well groundwater samples were tested for the following parameters:

Parameter Limits	Method	Results	Det.
Lead	Method SM18/3113B	<i>BDL</i>	0.001 mg/L
Metals - Digestion	Method SM18/3030C	<i>BDL</i>	0.001 mg/L
Purgeable Aromatics	Method 602	<i>BDL</i>	1 µg/L*
Semi-volatile Organic Compounds	Method 625	<i>BDL</i>	10 µg/L
Semi-volatile Extraction (Acid/Base Neutral)	Method 625	<i>BDL</i>	10 µg/L

*(except for Total xylenes which had a detection limit of 3 µg/L)

Based on these results found in Appendix A, it appears that no impact to the groundwaters * currently exists at this site, and no further investigation is recommended at this time.

Please call if you have any questions or if I may be of further assistance.

Sincerely,



Michael L. Babuin, P.G.
Manager, Solid and Hazardous Waste Services

Attachment

see
2/28/97
LTR
Following
MJB.

APPENDIX A
LABORATORY RESULTS



FROEHLING & ROBERTSON, INC.
GEOTECHNICAL • ENVIRONMENTAL • MATERIALS
ENGINEERS • LABORATORIES
"OVER ONE HUNDRED YEARS OF SERVICE"

CERTIFICATE OF ANALYSIS

December 20, 1996


Page 1 of 3

LAB #: 9612127
CLIENT: TRC Environmental Corporation
6340 Quadrangle Dr., Suite 200
Chapel Hill, NC 27514
Attn: Mike Babuin

SAMPLES COLLECTED BY: TRC Personnel
LAB RECEIPT: 12/17/96, 0955

<u>PARAMETER</u>	<u>ANALYSIS DATE/TIME</u>	<u>METHOD</u>	<u>ANALYST</u>
Lead	12/18/96, 1100	SM18/3113 B	RHS
Metals-Digestion	12/18/96, 0840	SM18/3030 C	TS
Purgeable Aromatics	12/18/96, 0845 & 12/19/96, 0927	EPA 602 EPA 602	DP DP
Semivolatile Organic Compounds	12/19/96, 1116	EPA 625	EVY
Semivolatile Extraction A/BN	12/18/96, 1620	EPA 625	DG
Library Search	12/19/96, 1116		EVY

Results appear on the following pages.


Audrey N. Brubeck
Laboratory Manager

AB/psg

HEADQUARTERS: 3015 DUMBARTON ROAD • BOX 27524 • RICHMOND, VA 23261-7524
TELEPHONE (804) 264-2701 • FAX (804) 264-1202

BRANCHES: ASHEVILLE, NC • BALTIMORE, MD • CHARLOTTE, NC • CHESAPEAKE, VA
CROZET, VA • FAYETTEVILLE, NC • FREDERICKSBURG, VA • GREENVILLE, SC
MOREHEAD CITY, N.C. • RALEIGH, NC • ROANOKE, VA • STERLING, VA



RESULTS:

F&R #: 9612127-01
SAMPLE ID: MW-1
DATE/TIME: 12/16/96, 1130
TYPE: Water/Grab

Det'n Limit:

Lead (mg/L) BDL 0.001

Purgeable Aromatics (µg/L)

Benzene	2	1
Toluene	BDL	1
Ethylbenzene	BDL	1
Total Xylenes	BDL	3
Chlorobenzene	BDL	1
1,2-Dichlorobenzene	BDL	1
1,3-Dichlorobenzene	BDL	1
1,4-Dichlorobenzene	BDL	1

Semivolatile Organic Compounds (µg/L)

Acenaphthene	BDL	10
Acenaphthylene	BDL	10
Anthracene	BDL	10
Benzidine	BDL	10
Benzo[a]anthracene	BDL	10
Benzo[a]pyrene	BDL	10
Benzo[b]fluoranthene	BDL	10
Benzo[g,h,i]perylene	BDL	10
Benzo[k]fluoranthene	BDL	10
bis(2-Chloroethoxy)methane	BDL	10
bis(2-Chloroethyl)ether	BDL	10
bis(2-Chloroisopropyl)ether	BDL	10
bis(2-Ethylhexyl)phthalate	BDL	10
4-Bromophenyl-phenylether	BDL	10
Butylbenzylphthalate	BDL	10
4-Chloro-3-methylphenol	BDL	10
2-Chloronaphthalene	BDL	10
2-Chlorophenol	BDL	10
4-Chlorophenyl-phenylether	BDL	10
Chrysene	BDL	10
Dibenz[a,h]anthracene	BDL	10
1,2-Dichlorobenzene	BDL	10

mg/L = milligram per Liter

µg/L = microgram per Liter

BDL = Below Detection Limit



RESULTS:

F&R #: 9612127-01
SAMPLE ID: MW-1
DATE/TIME: 12/16/96, 1130
TYPE: Water/Grab

Semivolatile Organic Compounds (µg/L) (cont.)		Det'n Limit:
1,3-Dichlorobenzene	BDL	10
1,4-Dichlorobenzene	BDL	10
3,3'-Dichlorobenzidine	BDL	10
2,4-Dichlorophenol	BDL	10
Diethylphthalate	BDL	10
2,4-Dimethylphenol	BDL	10
Dimethylphthalate	BDL	10
Di-n-butylphthalate	BDL	10
2,4-Dinitrophenol	BDL	10
2,4-Dinitrotoluene	BDL	10
2,6-Dinitrotoluene	BDL	10
Di-n-octylphthalate	BDL	10
Fluoranthene	BDL	10
Fluorene	BDL	10
Hexachlorobenzene	BDL	10
Hexachlorobutadiene	BDL	10
Hexachlorocyclopentadiene	BDL	10
Hexachloroethane	BDL	10
Indeno[1,2,3-cd]pyrene	BDL	10
Isophorone	BDL	10
4,6-Dinitro-2-methylphenol	BDL	10
Naphthalene	BDL	10
Nitrobenzene	BDL	10
2-Nitrophenol	BDL	10
4-Nitrophenol	BDL	10
n-Nitroso-di-n-propylamine	BDL	10
n-Nitrosodiphenylamine	BDL	10
Pentachlorophenol	BDL	10
Phenanthrene	BDL	10
Phenol	BDL	10
Pyrene	BDL	10
1,2,4-Trichlorobenzene	BDL	10
2,4,6-Trichlorophenol	BDL	10

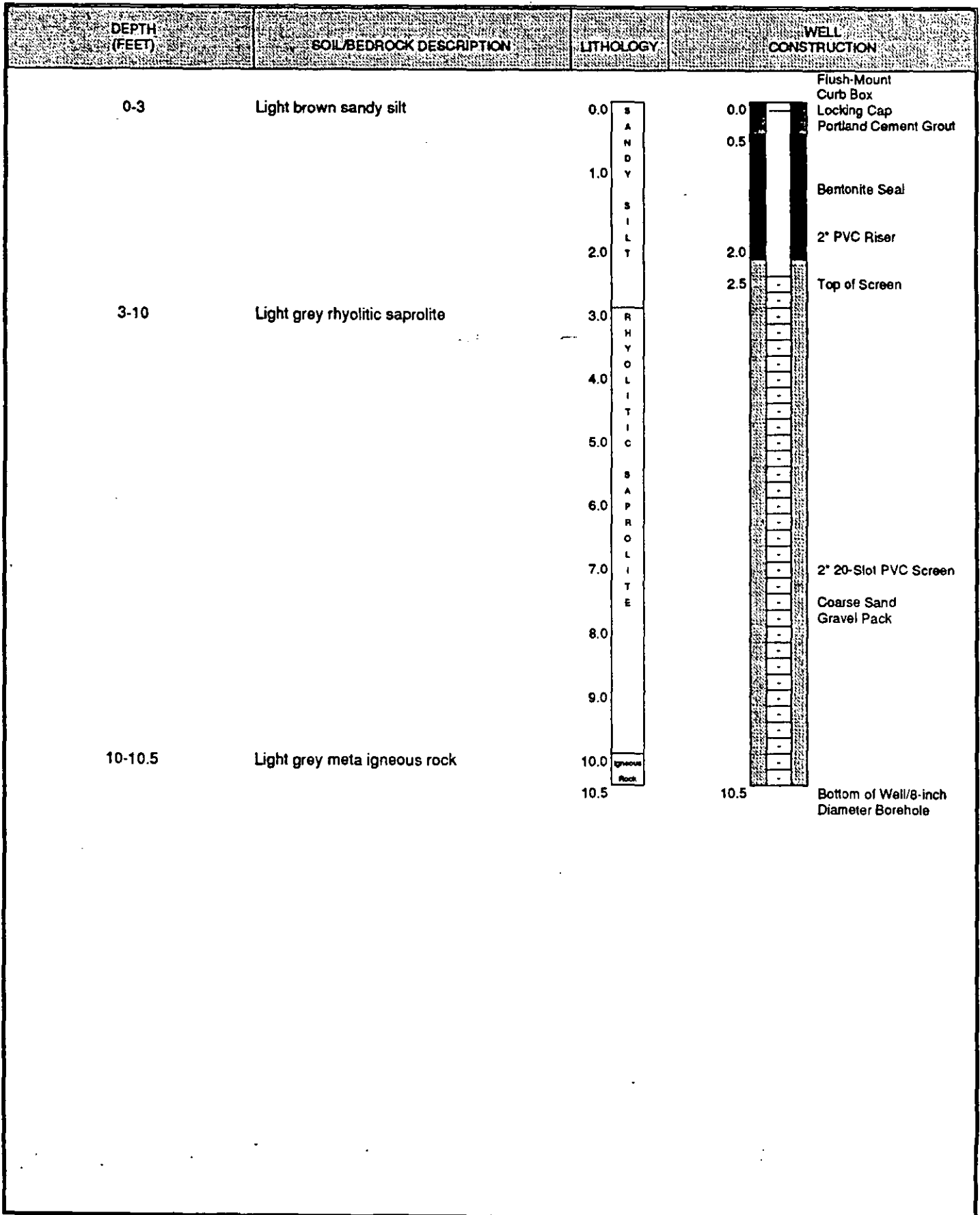
mg/L = milligram per Liter µg/L = microgram per Liter BDL = Below Detection Limit

No non-target compounds were detected in the library search.

APPENDIX B
BORING LOG AND WELL COMPLETION RECORD

MONITORING WELL: MW-1
 AT&T
 SILK HOPE NC RADIO RELAY STATION
 DATE STARTED: NOVEMBER 27, 1996
 DATE COMPLETED: NOVEMBER 27, 1996

DRILLING COMPANY: FROEHLING & ROBERTSON, INC.
 TRC INSPECTOR: MIKE BABUIN, P.G.
 DRILLING METHOD: HOLLOW STEM AUGER
 TOTAL WELL DEPTH: 10.5 FEET
 DEPTH TO WATER: 6.70 FEET 12-16-96



February 28, 1997

MEMORANDUM

TO: Ron Baxley/John Ferguson

FROM: Mike Babuin *mjb*

RE: Conversation of February 28, 1997 with Mr. John Ferguson Regarding North Carolina AT&T Radio Relay Station UST Removal Project (TRC Project #21284)

I wanted to take a moment and summarize today's telephone discussion with John today regarding the referenced project. We recently reviewed our reports with a "fresh set of eyes" one more time (since it has been about two months since we prepared the drafts) prior to receiving any AT&T comments which may need to be incorporated into the final reports. As a result, we found a discrepancy in our January 15, 1997 letter report pertaining to the installation of the monitoring well at the Silk Hope site, specifically, related to the reported value of benzene as compared to the minimum detection limits. Because the value reported by the lab was 2 parts per billion (ppb) and the detection limit is 1 ppb, a small exceedance of the established standard for benzene exists by this data, which we inadvertently overlooked. As reported however, remaining constituents were all reported to be below the detection limit.

In order to determine if the benzene value is representative, we are in the process of resampling the well (at no further cost to AT&T) to verify this value and we should have the results by March 10, 1997. As we obtain these results, we will forward a revised copy of the report to you.

Please contact me if I may provide additional information on this.

March 5, 1997

MEMORANDUM

TO: Ron Baxley/John Ferguson

FROM: Mike Babuin *mb*

RE: Results of Re-Sampling of Ground-Water Monitoring Well at the Silk Hope, North Carolina Radio Relay Station Site

Based on the information provided in my February 28, 1997 memo, please be advised that TRC recently re-sampled the referenced ground-water monitoring well and submitted the sample to the analytical laboratory. Results of this analysis were received by TRC today (attached) and showed that benzene concentrations were below detection limits. Upon receipt of any comments from AT&T regarding this report, TRC will incorporate this new information into the final letter report on the Silk Hope well installation and sampling efforts.

Please do not hesitate to call me if I may be of further assistance.



FROEHLING & ROBERTSON, INC.
 GEOTECHNICAL • ENVIRONMENTAL • MATERIALS
 ENGINEERS • LABORATORIES
 "OVER ONE HUNDRED YEARS OF SERVICE"

CERTIFICATE OF ANALYSIS

March 5, 1997

Page 1 of 1

LAB #: 9703009
 CLIENT: TRC
 6340 Quadrangle Drive, Suite 200
 Chapel Hill, NC 27514
 Attn: Mike Babuin

PO #: 21284

SAMPLES COLLECTED BY: M. Babuin
 LAB RECEIPT: 03/04/97, 1100

<u>PARAMETER</u>	<u>ANALYSIS DATE/TIME</u>	<u>METHOD</u>	<u>ANALYST</u>
Benzene	03/05/97, 0830	EPA 602	DP

RESULTS:

F&R #: 9703009-01
 SAMPLE ID: S1
 DATE/TIME: 03/01/97, 1602
 TYPE: Groundwater/Grab

Det'n Limit:

Benzene (µg/L) BDL 1

µg/L = microgram per Liter BDL = Below Detection Limit

Audrey N. Brubeck
Audrey N. Brubeck
 Laboratory Manager

AB/psg

HEADQUARTERS: 3015 DUMBARTON ROAD • BOX 27524 • RICHMOND, VA 23261-7524
 TELEPHONE (804) 264-2701 • FAX (804) 264-1202

BRANCHES: ASHEVILLE, NC • BALTIMORE, MD • CHARLOTTE, NC • CHESAPEAKE, VA
 CROZET, VA • FAYETTEVILLE, NC • FREDERICKSBURG, VA • GREENVILLE, SC
 RALEIGH, NC • ROANOKE, VA • STERLING, VA • WINSTON-SALEM, NC

Client: ~~XXXXXX~~ TRC Project No.: 21284
 Report Address: 6340 QUADRANGLE Drive Suite 200 27514 Chapel Hill, NC Invoice Address: SAME
 Attn: Mike BABUIN Attn: M. BABUIN
 Phone No.: (919) 419-7500 Sampled By: M. BABUIN
 Fax No.: (919) 419-7501 P.O. No.:
 TURNAROUND TIME
 24 Hours 48 Hours 5 Days
 Date Needed: ON OR BEFORE 3/10/97 FAX RESULTS ASAP TO TRC

REQUESTED PARAMETERS											
Benzene											

- LAB CODE ID**
 A = Asheville, NC
 C = Concord, NC
 D = Denver, CO
 G = Macon, GA
 K = Frankfort, KY
 L = Lumberton, NC
 M = Morrisville, NC
 N = Naples, FL
 S = Subcontracted
 T = Murfreesboro, TN

Sample ID	Date	Time	Comp/Grab	Matrix	Preserv.	Containers						REMARKS
S1												
S1	3/1/97	4:02 PM	GRAB	GROUND WATER		2 VOLS X					9703009-01	SAMPLE WATER FOR BENZENE

Lab Use Only: Custody Seal: Yes No N/A
 Unit Lab Temp: Rec Lab Temp:

COMMENTS: *on 3/1/97 (i.e. 4:40 pm) Rec'd on ice*

Relinquished By: <i>M. J. Babuin</i>	Date: <i>3/1/97</i>	Time: <i>4:40 pm</i>	Received By: <i>[Signature]</i>	Date: <i>3/5</i>	Time: <i>12:40 pm</i>	State Samples Collected: <i>NC</i>
Relinquished By:	Date:	Time:	Received By: <i>[Signature]</i>	Date: <i>3/4/97</i>	Time: <i>11:00</i>	Lab Use Only:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

CONTRACTOR'S REMOVAL DATA

Underground Fuel Tank Replacement
AT&T RADIO RELAY STATION
Silk Hope, North Carolina

CONTRACTOR

UNGER CONSTRUCTION COMPANY
7210 Old Taft Road
Muskogee, OK 74401
(918) 638-5028



UNGER CONSTRUCTION COMPANY

7210 Old Taft Road - Muskogee, OK 74401 (918) 683-5028

UNDERGROUND FUEL TANK REMOVAL

AT&T
FACILITY

SILK HOPE,
NORTH CAROLINA

REMOVAL By
UNGER CONSTRUCTION COMPANY
SEPTEMBER 1996

C O N T E N T S

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BACKFILL RECEIPT	1 2
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Photo No. 1

Photo No. 1 photos not available.

DAILY WORK LOG

Job # 387

Date: 9-12-96

Job: SILK HOPE INC.

Weather Conditions: COOL, CLOUDY + RAINY

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: _____

Materials (needs, receipts, delays): FUEL LINE + FITTING FOR TEMP. TANKS
FUEL TRANSFER PUMP, FUEL REMOVAL

Work done: PUMP WATER OUT OF SUMP WHILE GROUND WATER
RUNNING IN; SET, FILL + HOOK UP TEMP TANK, GET PRIMARY
TANKS PUMPED OUT

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris Miller

DAILY WORK LOG

Job # 383

Date: 9-13-96

Job: SILK HOPE W.C.

Weather Conditions: SUNNY + WARM

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: ENVIRONMENTALIST SAYS DIRT IS HOT, GOT
BACK FROM GETTING PLASTIC ENVIRONMENTALIST WAS GONE,
GROUNDWATER 2' DOWN

Materials (needs, receipts, delays): LUMBER FOR FORMS, 3 ROLLS
PLASTIC, REBAR FOR ANCHOR PAD

Work done: BUST UP COVER PAD, PULL BOLLARDS, START DIGGING
UP TANK, GO GET PLASTIC, WAIT ON ENVIRONMENTALIST TO
GET BACK, PULL TANK, ASSIST IN COLLECTING SAMPLES,
PICK UP REBAR

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Philip Miller

DAILY WORK LOG

Job # 383

Date: 9-14-96

Job: SILK HOPE, N.C.

Weather Conditions: SUNNY & WARM

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: DIRT TOO WET TO HANDLE

Materials (needs, receipts, delays): _____

Work done: START STOCK PILING DIRT, CUT & CLEAN TANK,
GET ROCK DELIVERED, START BACK FILLING, TAKE
DOWN FENCE, DIG & FIND GROUND RING

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris Miller

DAILY WORK LOG

Job # 387

Date: 9-15-96

Job: SILK HOPE, N.C.

Weather Conditions: CLOUDY & RAINY

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: _____

Materials (needs, receipts, delays): _____

Work done: SET GRADE FOR ANCHOR PAD, CADWELD
GROUNDS, BUILD FORM FOR ANCHOR PAD.

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. C. [Signature]

DAILY WORK LOG

Job # 383

Date: 9-16-96

Job: SILK HOPE, INC.

Weather Conditions: RAIN & COOL

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: RAIN ALL DAY, HARD TO FINISH
CONCRETE IN RAIN

Materials (needs, receipts, delays): BACKFILL, CONCRETE 4 YARDS

Work done: TIE DOUBLE REBAR MATS, POUR ANCHOR PAD
& PIPE STAND PADS, FIGHT RAIN TO FINISH CONCRETE

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris Miller

DAILY WORK LOG

Job # 383

Date: 9-17-96

Job: SILK HOPE, N.C.

Weather Conditions: SUNNY & COOL

Subcontractors on Job: BUFFALO FENCE

Visitors: _____

Inspectors: _____

Problems/Delays: GROUND VERY WET

Materials (needs, receipts, delays): CRANE SERVICE, QUOTE ON FENCE

Work done: PULL FORMS, START GRADING INSIDE NEW FENCED AREA, SET NEW TANK, TRY TO DRESS UP BUT TO WET, SET PIPESTAND PADS, PICK UP & LOAD TRASH, TRY TO FIND A PLACE TO TAKE TRASH

Change Orders: _____

Miscellaneous Information: _____

Superintendent: McChris McJca

DAILY WORK LOG

Job # 383

Date: 9-18-96

Job: SILK HOPE, INC.

Weather Conditions: SMY + WARM

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: _____

Materials (needs, receipts, delays): FUEL FOR NEW TANK,

TANK DISPOSAL, GRASS SEED, 40 BALE'S STRAW

Work done: HAUL OFF TRASH, HAUL OFF + DISPOSE OF TANK,

ANCHOR NEW TANK + FILL WITH FUEL, FINISH GRADING

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris McLee

DAILY WORK LOG

Job # 383

Date: 9-19-96

Job: SILK HOPE, NC.

Weather Conditions: SUNNY & WARM

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: TOP SOIL 1 1/2 HRS LATE

Materials (needs, receipts, delays): TOP SOIL

Work done: GET TOP SOIL DELIVERED, SPREAD TOP SOIL,
SPREAD SEED & STRAW

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris McJannet

DAILY WORK LOG

Job # _____

Date: 9-29-86

Job: Silk Hope NC

Weather Conditions: Rain OFF + ON

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: _____

Materials (needs, receipts, delays): _____

Work done: Cleaned up trash around job - full front bucket on hoe. Had to remove almost everything from trailer just to get a lane to walk in. Rearranged trailer + put everything in place. Jump started the KW, gauges show

change orders: that it isn't charging, appears to have a new alternator on it. Removed 180' of rebar for use at site city.

Miscellaneous Information: tried to wash red clay off of white truck.

Superintendent: Dee S. Quinn

DAILY WORK LOG

Job # _____

Date: 10-6-96

Job: Silk Hope, Siler City NC

Weather Conditions: _____

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

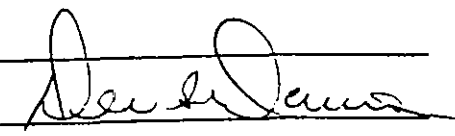
Problems/Delays: _____

Materials (needs, receipts, delays): _____

Work done: Removed + Disposed of Visqueen, Remove 20 bales of hay, left the rest for future use, Spread dirt to let it dry out, Cleaned battery connections on KW Took KW, Backhoe, + Job trailer to Mountrose.

Change Orders: Painted vent pipe + Fill lid Siler City

Miscellaneous Information: _____

Superintendent: 

Chandler inc.

CONCRETE COMPANY

Chandler Concrete Co., Inc. / Central Concrete Company
 Post Office Box 1239 • Burlington, North Carolina 27216
 Telephone: 910-226-1181 / Fax 910-570-0557

To order, call:

Asheboro	(910) 625-1070	Hillsborough	(919) 732-8121
Burlington	(910) 226-6365	Pittsboro	(919) 542-4242
Chapel Hill	(919) 942-0200	Rockingham Co.	(910) 342-5771
Durham	(919) 598-1424	Roxboro	(910) 599-8343
Greensboro	(910) 294-3488	Siler City	(919) 742-2627

CAUTION: CONCRETE BURNS! • READ THIS WARNING BEFORE USING

CONTACT WITH WET (UNHARDENED) CONCRETE, CAN CAUSE SKIN IRRITATION, SEVERE CHEMICAL BURNS, OR SERIOUS EYE DAMAGE. Avoid all contact with eyes. Wear rubber boots and gloves and avoid contact directly with skin or through porous materials. In case of contact with eyes or skin, FLUSH THOROUGHLY WITH WATER. If irritation persists, get medical attention promptly. KEEP CHILDREN AWAY.

CUSTOMER NAME COD UNGER CONST. TAXED				DELIVERY INSTRUCTIONS CLSRK ROAD 87 S. T/R SNOW CAMP RD. CROSS GRS. C. HILL RD. T/L CLARK ROAD			
DATE 09/16/96	TICKET # 0022945	SLUMP 4.0	TIME 10:39				

CUSTOMER # 509999	PURCHASE ORDER NUMBER	ORDER # 0011	TAX CODE 06	PLANT 601	ZONE CR15	TRUCK # 143	DRIVER NAME MCADAMS, BILL
----------------------	-----------------------	-----------------	----------------	--------------	--------------	----------------	------------------------------

LOAD QUANTITY	CUMULATIVE QUANTITY	ORDERED QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	AMOUNT
4.00	4.00	4.00	41	4000 PSI			
1.00			067	FREIGHT			

LV. PLANT 10:38	ARR. JOB 11:25	START POUR	END POUR	LV. JOB	ARR. PLANT
--------------------	-------------------	------------	----------	---------	------------

WATER ADDED	SLUMP POURED	TEST CYLINDERS MADE YES <input type="checkbox"/> NO <input type="checkbox"/>
-------------	--------------	---

SUBTOTAL
TAX
TOTAL
PREV. BALANCE
GRAND TOTAL

Customer acknowledges receipt of the concrete in good condition. Customer agrees to purchase and pay for the concrete at the price stated and upon the terms and conditions described on the reverse side of this ticket. Customer expressly agrees to convey the above warning to all persons who come in contact with wet (unhardened) concrete.

UNUSUAL INCIDENT OF NOTE ON THIS DELIVERY

M. Chris Moore
 AUTHORIZED REPRESENTATIVE OF CUSTOMER

11:30 AM
 TIME

FORM NO. 6010004048



LUCK STONE CORPORATION
 BURLINGTON PLANT
 P.O. BOX 99
 HAW RIVER NC 27258-
 Phone: (910)578-5420 Fax: (910)578-5410

TICKET NO. 150557
 07:14 07/16/1998

CUSTOMER
 J E LONG SAND & STONE
 1216 RAGHUT STREET
 BURLINGTON NC 27217-1445

CUST ACCT #
 212127
 PROJECT #
 JE LONG SA

ORDER ID
 LONGJOB
 PROJECT DESCRIPTION
 J.E. LONG SAND & STONE

P.O. #

DELIVERY INSTRUCTIONS
 J.E. LONG SAND & STONE

Unger Const.

SPECIAL INSTRUCTIONS

PRODUCT	PRODUCT DESCRIPTION
11	AGGREGATE BASE COURSE

MAX GROSS	GROSS SCALE WT	TARE WT	NET WT	NET TONS	STONE RATE	STONE PRICE
55,000 LBS.	53,320 LBS.	22,500 LBS.	30,820 LBS.	15.41-Short		

TRUCK #	HAULER #	HAULER NAME	HAUL RATE	HAUL CHARGE
114		J.E. LONG		

J.E. LONG

TOTAL QTY ORDERED	0.00 TONS			SALES TAX
TOTAL QTY DELIVERED	742.35 SHORT TONS	673.45 METRIC TONS		
DELIVERED TODAY	15.41 SHORT TONS	13.98 METRIC TONS		TOTAL
LOADS TODAY	1 LOADS			

N.C. Public weighmaster licenses expire 6/30/97-Tommy Reed, LIC.# 2383-Shawn Boswell, #9073

WEIGHMASTER
 TOMMY REED

RECEIVED BY *Earl Brown*

CUSTOMER FC #



LUCK STONE CORPORATION
 BURLINGTON PLANT
 P.O. BOX 99
 HAW RIVER NC 27258-
 Phone: (910)578-5420 Fax: (910)578-5410

TICKET NO. 188950
 11:40 09/14/1996

CUSTOMER J.E. LONG SAND & STONE 1215 RALPH STREET BURLINGTON NC 27217-1445	CUST ACCT # 212127	ORDER ID LONGPDB	P.O. #
	PROJECT # JE LONG SA	PROJECT DESCRIPTION J.E. LONG SAND & STONE	

DELIVERY INSTRUCTIONS
 J.E. LONG SAND & STONE

*Unger Const.
 M. Chris Meyer*

SPECIAL INSTRUCTIONS

PRODUCT	PRODUCT DESCRIPTION
11	AGREGATE BASE COURSE

14.51-Metric

MAX GROSS	GROSS SCALE WT.	TARE WT.	NET WT.	NET TONS	STONE RATE	STONE PRICE
55,000 LBS.	54,480 LBS.	22,500 LBS.	31,980 LBS.	15.99-Short		

TRUCK #	HAULER #	HAULER NAME	HAUL RATE	HAUL CHARGE
114				

J.E. LONG

TOTAL QTY ORDERED	0.00 TONS			SALES TAX
TOTAL QTY DELIVERED	726.94 SHORT TONS	659.47 METRIC TONS		
DELIVERED TODAY	48.02 SHORT TONS	43.56 METRIC TONS		TOTAL
LOADS TODAY	3 LOADS			

N.C. Public weighmaster licenses expire 6/30/97-Tommy Redd, LIC.#
 2363;Shawn Boswell, #9073

WEIGHMASTER
 TOMMY REDD

RECEIVED BY *Earl Overman*

CUSTOMER

FC #



LUCK STONE CORPORATION
 BURLINGTON PLANT
 P.O. BOX 99
 HAW RIVER NC 27258-
 Phone: (910)578-5400 Fax: (910)578-5410

TICKET NO. 188921
 19:96 07/14/1996

CUSTOMER J.E. LONG SAND & STONE 1216 RAHMUT STREET BURLINGTON NC 27217-1445	CUST ACCT # 212127	ORDER ID LONGF08	P.O. #
	PROJECT # JE LONG SA	PROJECT DESCRIPTION J.E. LONG SAND & STONE	

DELIVERY INSTRUCTIONS
 J.E. LONG SAND & STONE

*Unger Coast
 Mr. Chris M. Kee*

SPECIAL INSTRUCTIONS

PRODUCT 11	PRODUCT DESCRIPTION AGGREGATE BASE COURSE
---------------	--

14.56-Metric

MAX GROSS 55,000 LBS.	GROSS SCALE WT. 54,600 LBS.	TARE WT. 22,500 LBS.	NET WT. 32,100 LBS.	NET TONS 16.05-Short	STONE RATE	STONE PRICE
--------------------------	--------------------------------	-------------------------	------------------------	-------------------------	------------	-------------

TRUCK # 114	HAULER #	HAULER NAME	HAUL RATE	HAUL CHARGE
----------------	----------	-------------	-----------	-------------

J.E. LONG

TOTAL QTY ORDERED 0.00 TONS	TOTAL QTY DELIVERED 710.95 SHORT TONS 644.96 METRIC TONS	SALES TAX
DELIVERED TODAY 32.03 SHORT TONS 29.06 METRIC TONS	TOTAL	
LOADS TODAY 2 LOADS		

N.C. Public weighmaster licenses expire 6/30/97-Tommy Reed, Lic. # 2365-Shawn Boswell, 49075

WEIGHMASTER
 TOMMY REED

RECEIVED BY *Paul Overman*

CUSTOMER FC #



LUCK STONE CORPORATION
 BURLINGTON PLANT
 P.O. BOX 99
 HAW RIVER, NC 27258-
 Phone: (910)578-5420 Fax: (910)578-5410

TICKET NO. 158612
 02:47 09/14/1996

CUSTOMER J.E. LONG SAND & STONE 1216 RALPH STREET BURLINGTON NC 27217-1445	CUST ACCT # 212127	ORDER ID LONGFOR	P.O. #
	PROJECT # JE LONG SA	PROJECT DESCRIPTION J.E. LONG SAND & STONE	

DELIVERY INSTRUCTIONS
 J.E. LONG SAND & STONE

SPECIAL INSTRUCTIONS

PRODUCT 11	PRODUCT DESCRIPTION AGGREGATE BASE COURSE
---------------	--

*Unger Const.
 M. Chris Miller*

MAX GROSS 57,000 LBS.	GROSS SCALE WT 94,460 LBS.	TARE WT 22,500 LBS.	NET WT 31,960 LBS.	NET TONS 15.98-Short	STONE RATE	STONE PRICE
--------------------------	-------------------------------	------------------------	-----------------------	-------------------------	------------	-------------

TRUCK # 114	HAULER #	HAULER NAME J.E. LONG	HAUL RATE	HAUL CHARGE
----------------	----------	--------------------------	-----------	-------------

TOTAL QTY ORDERED 0.00 TONS	TOTAL QTY DELIVERED 674.90 SHORT TONS 630.40 METRIC TONS	SALES TAX
DELIVERED TODAY 15.98 SHORT TONS 14.50 METRIC TONS	LOADS TODAY 1 LOADS	TOTAL

N.C. Public weighmaster licenses expire 6/30/97-Tommy Redo, LIC.#
 2363-Shawn Boswell, 49873

WEIGHMASTER
 TOMMY REDO

RECEIVED BY *Paul Over*

CUSTOMER FC #

J. E. Long, Inc.
Sand & Stone
1216 Rauhut St.
Burlington, N.C. 27217
910-228-9706

26002

Order

8:30 A.M.

Date: **SEP 19 1996**

P.O.#

Name: *Unger Construction*

Job: *A.T. & T.*

Delivery

Address: *Clarke Rd - Snow Camp*

Billing

Address:

Ph.#

Mortar Sand -

Shale -

White Sand -

Topsoil - *1 yard. fd.*

Sandy

Stone -

Topsoil -

Screenings -

Filldirt -

White Stone -

Brick Chips -

Directions:

\$

C.O.D - Account - Cash - Check #

Rec'd By:

THANK YOU



Delv. By: *Earl*



UNGER
CONSTRUCTION
COMPANY

FUEL RECEIPT CERTIFICATE

Date: 9-12-96

Approximately 126 gallons of DIESEL

was received this date by S. H. OIL CO. from

AT & T Facility located at SILK HOPE, N.C.

UNGER CONSTRUCTION CO.

*Jim
McKee*

Mr. Clark McKee
Superintendent

Certificate Of Tank Disposal

Tank Location: CLARK ROAD SILK HOPE, N.C.

Site Address: CLARK RD

City/State: SILK HOPE, N.C.

Tank Serial # or Manufacturer's #: _____

Tank Size: 560 Type: FIBERGLASS COATED STEEL

Original Tank Contents: DIESEL

Tank Owner: AT&T Attn: _____

Owner Address: PO BOX 188, LAGRANGE, N.C. 28551

Project #: _____ Date Of Disposal: _____

Disposal Facility Address: 501 WEST RAILROAD ST.

City/State: LAGRANGE, N.C. 28551

Method Of Disposal: (Describe Cleaning, Destruction, & Disposal)

CUT BOTH ENDS OUT & CLEAN WITH BIO-SOLV

The Above Will Certify That The Structure Noted Above Was Disposed Of In The Manner Prescribed Under EPA Regulations.

Verified By: M. Chris Miller

Company Name: Unger Construction Company

Title: SUPERINTENDENT Date: 9-18-96



UNGER
CONSTRUCTION
COMPANY

Date: October 11, 1996

Hanson Engineers
47 Perimeter Center East
Suite 280
Atlanta, GA 30346

Attention: Mr. John Ferguson

Dear Mr. Ferguson

UNGER CONSTRUCTION COMPANY warrants the underground/aboveground storage tank removal and installation per specifications at the AT&T site at Silk Hope, NC to be free from defects in workmanship and materials for a period of one year from the date of this letter.

Sincerely,

UNGER CONSTRUCTION COMPANY


Wesley Seabolt
Project Manager

CONTRACTOR'S INSTALLATION DATA

Underground Fuel Tank Replacement
AT&T RADIO RELAY STATION
Silk Hope, North Carolina

CONTRACTOR

UNGER CONSTRUCTION COMPANY
7210 Old Taft Road
Muskogee, OK 74401
(918) 638-5028



UNGER CONSTRUCTION COMPANY

7210 Old Taft Road - Muskogee, OK 74401 (918) 683-5028

ABOVEGROUND FUEL TANK INSTALLATION

AT&T
FACILITY

SILK HOPE,
NORTH CAROLINA

INSTALLATION By
UNGER CONSTRUCTION COMPANY
SEPTEMBER 1996

C O N T E N T S

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Photo No. 1

Photo No. 1 photos not available.

DAILY WORK LOG

Job # 387

Date: 9-12-96

Job: SILK HOPE, W.C.

Weather Conditions: COOL, CLOUDY & RAINY

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: _____

Materials (needs, receipts, delays): FUEL LINE & FITTING FOR TEMP. TANK
FUEL TRANSFER PUMP, FUEL REMOVAL

Work done: PUMP WATER OUT OF SUMP WHILE GROUND WATER
RUNNING IN; SET, FILL & HOOK UP TEMP TANK; GET PRIMARY
TANKS PUMPED OUT

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris Miller

DAILY WORK LOG

Job # 383

Date: 9-13-96

Job: SILK HOPE, INC.

Weather Conditions: SUNNY + WARM

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: ENVIRONMENTALIST SAYS DIRT IS HOT, GOT BACK FROM GETTING PLASTIC ENVIRONMENTALIST WAS GONE, GROUNDWATER 2' DOWN

Materials (needs, receipts, delays): LUMBER FOR FORMS, 3 ROLLS PLASTIC, REBAR FOR ANCHOR PAD

Work done: BUST UP COVER PAD, PULL BOLLARDS, START DIGGING UP TANK, GO GET PLASTIC, WAIT ON ENVIRONMENTALIST TO GET BACK, PULL TANK, ASSIST IN COLLECTING SAMPLES, PICK UP REBAR

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris Miller

DAILY WORK LOG

Job # 383

Date: 9-14-96

Job: SILIX HOPE, INC.

Weather Conditions: SUNNY & WARM

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: DIRT TOO WET TO HANDLE

Materials (needs, receipts, delays): _____

Work done: START STOCK PILING DIRT, CUT & CLEAN TANKS,
GET ROCK DELIVERED, START BACKFILLING, TAKE
DOWN FENCE, DIG & FIND GROUND RING

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris Miller

DAILY WORK LOG

Job # 383

Date: 9-15-96

Job: SILK HOPE, N.C.

Weather Conditions: CLOUDY & RAINY

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: _____

Materials (needs, receipts, delays): _____

Work done: SET GRADE FOR ANCHOR PAD; CADWELD
GROUND; BUILD FORM FOR ANCHOR PAD.

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. C. McTeer

DAILY WORK LOG

Job # 383

Date: 9-16-96

Job: SILK HOPE W.C.

Weather Conditions: RAIN & COOL

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: RAIN ALL DAY, HARD TO FINISH

CONCRETE IN RAIN

Materials (needs, receipts, delays): BACKFILL, CONCRETE 4 YARDS

Work done: TIE DOUBLE REBAR MATS, POUR ANCHOR PAD

& PIPE STAND PADS, FIGHT RAIN TO FINISH CONCRETE

Change Orders: _____

Miscellaneous Information: _____

Superintendent: Mr. Chris McNeil

DAILY WORK LOG

Job # 383

Date: 9-17-96

Job: SILK HOPE, N.C.

Weather Conditions: SUNNY & COOL

Subcontractors on Job: BUFFALO FENCE

Visitors: _____

Inspectors: _____

Problems/Delays: GROUND VERY WET

Materials (needs, receipts, delays): CRANE SERVICE, QUOTE ON FENCE

Work done: PULL FORMS, START GRADING INSIDE NEW FENCED AREA, SET NEW TANK, TRY TO DRESS UP BUT TOO WET, SET PIPESTAND PADS, PICK UP & LOAD TRASH, TRY TO FIND A PLACE TO TAKE TRASH

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris Morka

DAILY WORK LOG

Job # 383

Date: 9-18-96

Job: SILK HOPE, INC.

Weather Conditions: SLUICKY + WARM

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: _____

Materials (needs, receipts, delays): FUEL FOR NEW TANK,
TANK DISPOSAL, GRASS SEED, TWO BALES STRAW

Work done: HAUL OFF TRASH, HAUL OFF + DISPOSE OF TANK,
ANCHOR NEW TANK + FILL WITH FUEL, FINISH GRADING

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chan McPhee

DAILY WORK LOG

Job # 383

Date: 9-19-96

Job: SILK HARVESTING

Weather Conditions: SUNNY & WARM

Subcontractors on Job: _____

Visitors: _____

Inspectors: _____

Problems/Delays: TOP SOIL 1 1/2 HRS LATE

Materials (needs, receipts, delays): TOP SOIL

Work done: GET TOP SOIL DELIVERED, SPREAD TOP SOIL,
SPREAD SEED & STRAW

Change Orders: _____

Miscellaneous Information: _____

Superintendent: M. Chris McKee

Chandler Inc.

CONCRETE COMPANY

Chandler Concrete Co., Inc. / Central Concrete Company
 Post Office Box 1239 • Burlington, North Carolina 27216
 Telephone: 910-226-1181 / Fax 910-570-0557

To order, call:

Asheboro	(910) 625-1070	Hillsborough	(919) 732-8121
Burlington	(910) 226-6365	Pittsboro	(919) 542-4242
Chapel Hill	(919) 942-0200	Rockingham Co.	(910) 342-5771
Durham	(919) 598-1424	Roxboro	(910) 599-8343
Greensboro	(910) 294-3488	Siler City	(919) 742-2627

CAUTION: CONCRETE BURNS! • READ THIS WARNING BEFORE USING

CONTACT WITH WET (UNHARDENED) CONCRETE, CAN CAUSE SKIN IRRITATION, SEVERE CHEMICAL BURNS, OR SERIOUS EYE DAMAGE. Avoid all contact with eyes. Wear rubber boots and gloves and avoid contact directly with skin or through porous materials. In case of contact with eyes or skin, FLUSH THOROUGHLY WITH WATER. If irritation persists, get medical attention promptly. KEEP CHILDREN AWAY.

CUSTOMER NAME COD HUNGER CONST. TAXED				DELIVERY INSTRUCTIONS CLSRK ROAD 87 S. T/R SNOW CAMP RD. CROSS GRS. C. HILL RD. T/L CLARK ROAD			
DATE 09/16/96	TICKET # 0022945	SLUMP 4.0	TIME 10:29				

CUSTOMER # 509999	PURCHASE ORDER NUMBER	ORDER # 0011	TAX CODE 06	PLANT 601	ZONE CR15	TRUCK # 143	DRIVER NAME MCADAMS, BILL
----------------------	-----------------------	-----------------	----------------	--------------	--------------	----------------	------------------------------

LOAD QUANTITY	CUMULATIVE QUANTITY	ORDERED QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	AMOUNT
4.00	4.00	4.00	41	4000 PSI			
1.00			067	FREIGHT			

LV. PLANT 10:38	ARR. JOB 11:23
--------------------	-------------------

START POUR	END POUR
------------	----------

LV. JOB	ARR. PLANT
---------	------------

SUBTOTAL
TAX
TOTAL
PREV. BALANCE
GRAND TOTAL

WATER ADDED

SLUMP POURED

TEST CYLINDERS MADE
YES <input type="checkbox"/> NO <input type="checkbox"/>

Customer acknowledges receipt of the concrete in good condition. Customer agrees to purchase and pay for the concrete at the price stated and upon the terms and conditions described on the reverse side of this ticket. Customer expressly agrees to convey the above warning to all persons who come in contact with wet (unhardened) concrete.

UNUSUAL INCIDENT OF NOTE ON THIS DELIVERY

M. Chris Moore
 AUTHORIZED REPRESENTATIVE OF CUSTOMER

11:20 AM
 TIME

FORM NO. 6010004048



LUCK STONE CORPORATION
 BURLINGTON PLANT
 P.O. BOX 99
 HAW RIVER NC 27258-
 Phone: (910)578-5420 Fax: (910)578-5410

TICKET NO. 183527
 07/14 09/16/1996

CUSTOMER J E LONG SAND & STONE 1216 RAUHUT STREET BURLINGTON NC 27217-1445	CUST ACCT # 212127	ORDER ID LONGJOB	P.O. #
	PROJECT # JE LONG SA	PROJECT DESCRIPTION J.E. LONG SAND & STONE	

DELIVERY INSTRUCTIONS
 J.E. LONG SAND & STONE

Unger Const.

SPECIAL INSTRUCTIONS

PRODUCT #	PRODUCT DESCRIPTION
11	AGGREGATE BASE COURSE

13.98-Metric

MAX GROSS	GROSS SCALE WT	TARE WT	NET WT	NET TONS	STONE RATE	STONE PRICE
55,000 LBS.	53,320 LBS.	22,500 LBS.	30,820 LBS.	15.41-Short		

TRUCK #	HAULER #	HAULER NAME	HAUL RATE	HAUL CHARGE
114				

J.E. LONG

TOTAL QTY ORDERED	0.00 TONS				SALES TAX
TOTAL QTY DELIVERED	742.35 SHORT TONS	673.45 METRIC TONS			
DELIVERED TODAY	15.41 SHORT TONS	13.98 METRIC TONS			TOTAL
LOADS TODAY	1 LOADS				

N.C. Public weighmaster licenses expire 6/30/97-Tommy Reed, LIC.# 2385; Shawn Boswell, #9073

WEIGHMASTER
 TOMMY REED

RECEIVED BY *Shawn Boswell*

CUSTOMER FC # ~~XXXXXXXXXX~~



LUCK STONE CORPORATION
 BURLINGTON PLANT
 P.O. BOX 99
 HAW RIVER NC 27258-
 Phone: (910)578-5420 Fax: (910)578-5410

TICKET NO. 168950
 11:40 09/14/1996

CUSTOMER J.E. LONG SAND & STONE 1215 RACHUT STREET BURLINGTON NC 27217-1445	CUST ACCT # 212127	ORDER ID LONGJOB	P.O. #
	PROJECT # JE LONG SA	PROJECT DESCRIPTION J.E. LONG SAND & STONE	

DELIVERY INSTRUCTIONS
 J.E. LONG SAND & STONE

*Unger Const.
 M. Chris Miller*

SPECIAL INSTRUCTIONS

PRODUCT	PRODUCT DESCRIPTION
11	AGGREGATE BASE COURSE

14.51-Metric

MAX GROSS	GROSS SCALE WT	TARE WT	NET WT	NET TONS	STONE RATE	STONE PRICE
55,000 LBS.	54,480 LBS.	22,500 LBS.	31,980 LBS.	15.97-Short		

TRUCK #	HAULER #	HAULER NAME	HAUL RATE	HAUL CHARGE
114				

J.E. LONG

TOTAL QTY ORDERED	0.00 TONS			SALES TAX
TOTAL QTY DELIVERED	726.94 SHORT TONS	659.47 METRIC TONS		
DELIVERED TODAY	46.02 SHORT TONS	43.56 METRIC TONS		TOTAL
LOADS TODAY	3 LOADS			

N.C. Public weighmaster licenses expire 6/30/97-Tommy Reed, LIC.# 2567-Spahn Boswell, #9173

WEIGHMASTER
 TOMMY REED

RECEIVED BY *Paul Overman*

CUSTOMER

FC #



LUCK STONE CORPORATION
 BURLINGTON PLANT
 P.O. BOX 99
 HAW RIVER NC 27258-
 Phone: (910)578-5420 Fax: (910)578-5410

TICKET NO. 1839,1
 10:36 07/14/1996

CUSTOMER J.E. LONG SAND & STONE 1216 RACHUT STREET BURLINGTON NC 27217-1445	CUST ACCT # 212127	ORDER ID LONGFOB	P.O. #
	PROJECT # JE LONG SA	PROJECT DESCRIPTION J.E. LONG SAND & STONE	

DELIVERY INSTRUCTIONS
 J.E. LONG SAND & STONE

SPECIAL INSTRUCTIONS

*Unger Coast
 M. Chris McKeel*

PRODUCT 11	PRODUCT DESCRIPTION AGGREGATE BASE COURSE
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14.56-metric

MAX GROSS 55,000 LBS.	GROSS SCALE WT. 54,606 LBS.	TARE WT. 22,500 LBS.	NET WT. 32,100 LBS.	NET TONS 16.05-Short	STONE RATE	STONE PRICE
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TRUCK # 114	HAULER #	HAULER NAME	HAUL RATE	HAUL CHARGE
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J.E. LONG

TOTAL QTY ORDERED 0.00 TONS	TOTAL QTY DELIVERED 710.95 SHORT TONS 644.96 METRIC TONS	DELIVERED TODAY 32.03 SHORT TONS 29.06 METRIC TONS	LOADS TODAY 2 LOADS	SALES TAX	TOTAL
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N.C. Public Weighmaster licenses expire 6/30/97-Tommy Redd, Lic.# 2365;Shawn Gosnell, 89873

WEIGHMASTER
 TOMMY REDD

RECEIVED BY *Paul Overman*
 CUSTOMER

FC # [REDACTED]



LUCK STONE CORPORATION
 BURLINGTON PLANT
 P.O. BOX 99
 HAW RIVER NC 27258-
 Phone: (910)578-5410 Fax: (910)578-5410

TICKET NO. 158912
 08/17 09/14/1978

CUSTOMER J.E. LONG SAND & STONE 1215 RACHOT STREET BURLINGTON NC 27817-1445	CUST ACCT # 212137	ORDER ID LONGF08	P.O. #
	PROJECT # JE LONG SA	PROJECT DESCRIPTION J.E. LONG SAND & STONE	

DELIVERY INSTRUCTIONS
 J.E. LONG SAND & STONE

SPECIAL INSTRUCTIONS

PRODUCT # 11	PRODUCT DESCRIPTION AGGREGATE BASE COURSE
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14.50-Metric

MAX GROSS 59,000 LBS.	GROSS SCALE WT 54,460 LBS.	TARE WT 22,500 LBS.	NET WT 31,960 LBS.	NET TONS 15.98-Short	STONE RATE	STONE PRICE
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TRUCK # 114	HAULER #	HAULER NAME J.E. LONG	HAUL RATE	HAUL CHARGE
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TOTAL QTY ORDERED	0.00 TONS			SALES TAX
TOTAL QTY DELIVERED	634.90 SHORT TONS	630.40 METRIC TONS		
DELIVERED TODAY	15.98 SHORT TONS	14.50 METRIC TONS		TOTAL
LOADS TODAY	1 LOADS			

N.C. Public weighmaster licenses expire 6/30/97-Tommy Reid, LIC.#
 2363;Shaun Boswell, #9873

WEIGHMASTER
 TOMMY REID

RECEIVED BY *Paul Over*

CUSTOMER

FC #

*Unger Const.
 M. Clin Miller*

J. E. Long, Inc.
Sand & Stone
1216 Rauhut St.
Burlington, N.C. 27217
910-228-9706

26002

Order #

8:30 A.M.

Date: SEP 19 1996

P.O.#

Name: Unger Construction

Job: A.T. & T.

Delivery

Address: Clarke Rd - Snow Camp

Billing

Address:

Ph.#

Mortar Sand -

Shale -

White Sand -

Topsoil - 1 hand. Pd.
Sandy

Stone -

Topsoil -

Screenings -

Filldirt -

White Stone -

Brick Chips -

Directions:

\$

C.O.D. Account - Cash - Check #

Rec'd By:

THANK YOU



Delv. By: Earl



Mr. or Mrs. Wagner Coast

Address _____

This is The Only Itemized Statement You Will Receive

Our charge sale terms will be Net, payable thirty days from date of purchase. Charges over thirty days old will be subject to a service charge of 1½% interest per month, which is an ANNUAL INTEREST RATE OF EIGHTEEN (18) percent.

OPERATOR	Cash	TRUCK NO.	TIME
	Charge		A.M. P.M.

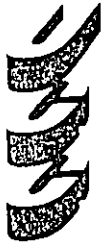
GALLONS DELIVERED 585.3

KEROSENE FUEL OIL NO.

PREVIOUS SALE NO.	CODE	GALLON READING—START
THIS PRODUCT IS DYED DIESEL FUEL		
PENALTY FOR TAXABLE USE		
YOUR MILE		GALLON READING—FINISH

CUSTOMER SIGNATURE _____
 Date 9-18 19 76 INVOICE NO. 34377

GALS. READING — START 000000.0
 GALS. READING — FINISH 000585.3
 SALES SEQUENCE NUMBER
 PRICE PER GALLON — CENTS
 PRODUCT COST
 TAX
 TOTAL PRICE



UNGER
CONSTRUCTION
COMPANY

Date: October 11, 1996

Hanson Engineers
47 Perimeter Center East
Suite 280
Atlanta, GA 30346

Attention: Mr. John Ferguson

Dear Mr. Ferguson

UNGER CONSTRUCTION COMPANY warrants the underground/aboveground storage tank removal and installation per specifications at the AT&T site at Silk Hope, NC to be free from defects in workmanship and materials for a period of one year from the date of this letter.

Sincerely,

UNGER CONSTRUCTION COMPANY

Wesley Seabolt
Project Manager

APPENDICES/CHECKLIST

Underground Fuel Tank Replacement
AT&T RADIO RELAY STATION
Silk Hope, North Carolina

AT&T CORPORATE ENVIRONMENTAL CLOSURE FORM
(To Be Included as Appendix Y-1)

Facility Name Silk Hope Radio Relay Station
Facility GEO Code NC2150
Facility Address S.R. 2352 (Clark Road)

Facility Status Active

Tank Data
Tank Number 1
Size (gallons) 560
Contents Diesel

Closure Method Removal

Tank Residue and Rinsates
Quantity 277 gallons
Manifested Yes
Sent to
Site Owner S&H Oil Company
Site Name _____
Address _____
Disposal Method _____

Petroleum Containing Soil
Quantity (tons) None
Manifested _____
Sent to
Site Owner _____
Site Name _____
Address _____
Disposal Method _____

Tank and Piping Disposal
Method Recycled
Cert. of Destru. Yes

Final Site Assessment Results
Name of lab Hydrologic, Inc. of Morrisville, NC
Soil Results See Environmental Report

Water Results See Environmental Report

Imported Soil Sampled N/A

Location of Closure Documents
Johnson, Spellman & Associates
6991 Peachtree Industrial Blvd.
Norcross, GA 30092

APPENDICES/CHECKLIST

<u>Designation</u>	<u>Applicability</u>	<u>Title</u>	<u>Date Received/ Initials/Comments</u>
A.	<u>Contractor</u>	Subcontractor and Material Suppliers List.	_____
B.	<u>Contractor</u>	Contractor Daily Construction Report to document tank removal, inspection and sampling events.	<u>8/18/97</u>
C.	<u>AT&T</u>	AT&T Representative Daily Construction Report.	_____
D.	<u>Contractor</u>	Transfer/Disposition of Usable Product.	<u>8/18/97</u>
E.	<u>Contractor</u>	Bill of Lading/Manifest for Transportation of Product (Tank Bottoms).	_____
F.	<u>Contractor</u>	Receipt for Product Disposal. (Tank Bottoms at final destination).	_____
G.	<u>Contractor</u>	Bill of Lading/Manifest for Transit Disposal.	_____
H.	<u>Contractor</u>	Application and Permit for Underground Storage Tank Transportation.	_____
I.	<u>Contractor</u>	Bill of Lading/Manifest for Underground Storage Tank Disposal.	_____
J.	<u>Contractor</u>	Receipt for Disposal of Underground Storage Tank.	<u>8/18/97</u>
K.	<u>Contractor</u>	Bill of Lading/Manifest for Product Piping Disposal.	_____
L.	<u>Contractor</u>	Bill of Lading/Manifest for the Transportation of Regulated Soil.	_____

APPENDICES/CHECKLIST

<u>Designation</u>	<u>Applicability</u>	<u>Title</u>	<u>Date Received/ Initials/Comments</u>
M.	<u>Contractor</u>	Bill of Lading/Manifest for the Transportation of Regulated Water.	_____
N.	<u>Contractor</u>	Bill of Lading/Manifest for the Transportation of Other Regulated Products.	_____
O.	<u>Environmental Consultant</u>	Analytical (soil/water) Sampling Location Plan. (location in Section B if single plan).	<u>8/18/97</u>
P.	<u>Environmental Consultant</u>	Analytical Test Reports for Soil Samples with formal signed Chain of Custody records.	<u>8/18/97</u>
Q.	<u>Environmental Consultant</u>	Analytical Test Reports for Groundwater Samples with formal signed Chain of Custody records.	_____
R.	<u>Environmental Consultant</u>	Analytical Test Reports for Drinking Water Samples with formal signed Chain of Custody records.	_____
S.	<u>Contractor</u>	Certificate from Supplier of Imported Backfill stating that the material conforms to the specification gradation requirements.	_____
T.	<u>Contractor</u>	Analytical Test Report for Imported Backfill. (not required for crushed stone or pea gravel).	_____
U.	<u>Contractor</u>	Soil Compaction Field report for Underground Storage Tank Disposal.	_____
V.	<u>Contractor</u>	Soil Compaction Lab report Underground Storage Tanks.	<u>8/18/97</u>

APPENDICES/CHECKLIST

<u>Designation</u>	<u>Applicability</u>	<u>Title</u>	<u>Date Received/ Initials/Comments</u>
W.	<u>Contractor</u>	Certificate from Receiving Landfill for regulated soil characterization.	_____
X.	<u>AT&T</u>	Photographs to document tank removal activities.	<u>8/18/97</u>
Y-1.	<u>AT&T</u>	AT&T Corporate Environmental Tank Closure Form.	<u>See Page 1 of Tab 4</u>
Y-2.	<u>AT&T</u>	Federal Notification Form for Substantial Site Modification (Registration Form).	_____
Y-3.	<u>AT&T</u>	State Notification Form for Substantial Site Modification (Registration Form).	<u>See Tab 1</u>
Y-4.	<u>AT&T</u>	Local Notification Form for Substantial Site Modifications (Registration Form).	_____
Z.	<u>Contractor</u>	Project Completion Acceptance Form.	_____
AA.	<u>Contractor</u>	AT&T Building Engineering Site Survey.	_____
AB.	<u>Contractor</u>	State Regulations.	_____
AC.	<u>Contractor</u>	Local Regulations.	_____
AD.	<u>Contractor</u>	Closure Letter of concurrence from regulator agency.	_____
AE.	<u>Contractor</u>	Correspondence.	_____