SHIELD ENVIRONMENTAL ASSOCIATES, INC.

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RECEIVED
N.C. Dept. of EHNR
MAR - 8 1994
Winston-Salem
Regional Office

March 4, 1994

Mr. Waddell Watters
North Carolina Department of Environment,
Health and Natural Resources
Division of Environmental Management
8025 North Point Boulevard
Winston-Salem, North Carolina 27106

Reference: Comprehensive Site Assessment
Gate City Truck
Shield Number 920278

Dear Mr. Watters,

Enclosed you will find a bound copy of the above referenced report. Please call Burt Brown with any comments or questions.

Sincerely,

Susan Reinartsen for
Lynn M. Trenning
Administrative Manager

COMPREHENSIVE SITE ASSESSMENT REPORT
GATE CITY TRUCK REPAIR SITE
6301 BURNT POPLAR ROAD
GUILFORD COUNTY, GREENSBORO, NORTH CAROLINA
SHIELD JOB NUMBER 920278

Prepared For:

Branch Banking and Trust Company
P.O. Box 26122
Greensboro, North Carolina 27402-6122

Prepared By:

Shield Environmental Associates, Inc.
Carolina Business Center
2848 I-85 South, Suite H
Charlotte, North Carolina 28208

March 7, 1994

H. Burt Brown
Project Manager

John M. Brown, P.G. #1013
Chief Operating Officer

NORTH CAROLINA LICENSED SEAL 1013 GEOLOGIST JOHN M. BROWN

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Executive Summary

Source Information

- *Type:* Petroleum hydrocarbon constituents are present in the groundwater at the Gate City Truck Repair (Gate City) property.

- *Containers:* Gasoline and diesel fuel previously dispensed at the site. The products were dispensed via dispenser pumps from a 10,000 gallon diesel fuel UST and a 500 gallon gasoline UST. Waste motor oil from engine repair work at the site was stored in a 500 gallon waste oil UST.

- *Amount:* No data is available to indicate the quantity of product released at the site.

Initial Abatement and Emergency Response

- *Tank Closure:* All USTs and dispenser pumps were removed from the site during 1993.

- *Soil Removal:* All unsaturated soils within 5 feet of the diesel fuel and gasoline USTs were removed during UST closure activities performed by Shield Environmental Associates, Inc. (Shield). All soils from monitoring well installations were collected and contained in steel drums for future disposal.

- *Free Product:* Free product petroleum has not been detected on the groundwater at the site.

- *Water Supply:* There are no known water supply wells at the Gate City site or at any of the adjacent properties. Guilford County water service is available in the area.

Damage/Extent of Release and Affected Receptors

- *Potential Receptors:* There are no known potable water sources located within 1,500 feet of the site. Based on the information available, no residences or businesses use drinking water wells within 1,500 feet of the site. One small surface water body is located within 1,500 feet southwest of the Gate City site.

- *Subsurface Structures:* No known basements or vaults are located in close proximity to the site. Shield believes that the subsurface utilities at the site are not conduits for the spread of petroleum contamination or conduits for potential accumulations of petroleum vapors.

- ***Populations:*** The area contains a mix of residential, industrial and commercial properties.

- ***Maximum Concentrations:*** The following data indicate the maximum concentrations for soil and groundwater contaminants.

Soil

All unsaturated soils sampled during Shield monitoring well installations showed OVA readings of less than 5 ppm. Soil contamination has been documented in the vicinity of the former USTs.

TPH 5030	2,400 mg/Kg	(Comp-1)
TPH 3550	690 mg/Kg	(Comp-2)
Oil and Grease 9071	190 mg/Kg	(C1S)

Groundwater

Benzene	5,300	μg/L	(PITW-2)
Toluene	21,000	μg/L	(PITW-2)
Ethylbenzene	1,200	μg/L	(PITW-2)
Xylenes	9,600	μg/L	(PITW-2)
Methyl tert-Butyl Ether	240	μg/L	(MW-2)
Isopropyl ether	300	μg/L	(MW-2)
Chloroform	38	μg/L	(MW-5)
1,2-Dichloroethane	150	μg/L	(PITW-2)
Bromodichloromethane	1.5	μg/L	(MW-5)
Naphthalene	590	μg/L	(PITW-2)
Phenanthrene	70	μg/L	(PITW-1)
Flourene	40	μg/L	(PITW-1)
2,4-Dinitrophenol	120	μg/L	(PITW-2)
Phenol	12	μg/L	(MW-2)
1,2-Dibromoethane	7.9	μg/L	(MW-2)
Lead	.016	mg/L	(MW-4)

- ***Estimated Groundwater Flow Rate and Direction:*** Groundwater is migrating at a calculated rate of approximately 17.92 feet per year, based on the site soils and the hydraulic gradient across the site. Shallow groundwater is migrating in a west-southwest direction at the site.

Conclusions and Recommended Corrective Action:

- *Conclusions:* Based on Shield's groundwater assessment activities, Shield concludes that the hydrocarbon affected groundwater at the Gate City site exists in one distinct location:

The largest plume concentrations occur in the vicinity of monitoring well MW-2. The available potentiometric data shows generalized flow from the east.

- The lateral extent of petroleum hydrocarbon affected groundwater has been delineated downgradient of the generalized flow from the former UST area as indicated by the shallow monitoring wells MW-3, MW-5 and MW-6.

- The vertical extent of petroleum hydrocarbon affected groundwater in the plume adjacent to the UST area has been adequately delineated as indicated in the vertical extent well (VEW-1) results.

Shield recommends the following course of action:

- No active remediation of the soils and groundwater immediately west-southwest of the former UST area is recommended at this time.

- Monitoring only should be adequate to detect any significant changes to groundwater quality at the site.

- Shield recommends that a Corrective Action Plan be written for the site. Corrective action should include the necessary aquifer testing and collection of groundwater chemistry data necessary to accurately predict the migration and degradation of the petroleum hydrocarbon constituents in the groundwater. This corrective action should also describe a plan for monitoring the upgradient and downgradient groundwater quality at the site.

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1.0 SITE HISTORY AND SOURCE CHARACTERIZATION

The Gate City Truck Repair site is located at the intersection of Chimney Rock Road and Burnt Poplar Road, Guilford County, North Carolina (see Figure 1 for site location map). The buildings on-site consist of the Gate City Truck Repair service shop located at the northeast corner of the property and West Brothers Trucking Company located at the north-central portion of the property.

The Gate City property is currently owned by ARA/Smith's, Inc. The site is surrounded by industrial and commercial zoned properties (see Figure 2 and Table 1 for adjacent property owners).

Three underground storage tanks (USTs) were formerly located at the site (see Figure 3 for a site plan). These tanks were removed from the site in January 1993. The following is a list of each tank, the product it contained and its size:

# of USTs	Product	Size
(1) one	Diesel Fuel	10,000 gallon
(1) one	Unleaded Gasoline	500 gallon
(1) one	Waste Oil	500 gallon

1.1 UST Excavation Area

A total of three USTs were removed from the site on January 26, 1993. The diesel fuel and gasoline tanks exhibited moderate to heavy pitting and holes were found in both of these tanks. The waste oil tank was in good condition. Groundwater was encountered in the diesel fuel and gasoline tank excavation pit but not in the waste oil pit. A release of petroleum hydrocarbons was suspected from the odors and observations in the diesel fuel and gasoline pits. A release was confirmed when laboratory analytical results of groundwater and soil samples were received. Please refer to Shield's Tank Closure Assessment Report, dated March 16, 1993 for a more detailed discussion of closure activities and laboratory data sheets (see Appendix A for a copy of the Tank Closure Assessment Report).

Soils immediately surrounding the diesel fuel and the gasoline USTs were excavated and placed on a properly constructed stockpile. Dissolved petroleum hydrocarbons were detected in pit water samples collected during UST closure assessment activities at the site. Possible sources of contamination include:

An undetermined quantity of diesel fuel range and gasoline range petroleum hydrocarbons from holes in the USTs at the site.

Current assessment activities by Shield Environmental Associates, Inc. (Shield) in 1993 further define the extent of petroleum hydrocarbon in the groundwater and in the soils.

On April 22, 1993 ARA/Smith's received a Notice of Violation (NOV) of 15A NCAC 2L.0202 requiring this Comprehensive Site Assessment (see Appendix B for NOV).

2.0 POTENTIAL RECEPTORS AND MIGRATION PATHWAYS

Shield personnel have inspected the Gate City site and those areas within a radius of 1,500 feet of the site. There are no known drinking water wells located within 1,500 feet of the site although a water supply well is located at 1619 Burnt Poplar Road, approximately 1600 feet east of the Gate City site. There is a small surface water body approximately 1,500 feet southwest of the site.

All properties within 1,500 feet of the site have Guilford County water service available to them. Based on the location of the nearest probable drinking water supply wells currently in use and the availability of county water to residents adjacent to the site, the petroleum hydrocarbon constituents in the groundwater should not pose a significant threat to human health.

The subsurface utilities consist of natural gas, water supply and telephone lines that run along the north side of Gate City property and west along Burnt Poplar Road. These utilities enter the property in front of the West Brothers building. Water, sewer, electric and storm drainlines run underground between the Gate City building and the West Brothers building. Shallow groundwater is present at a depth of 10 to 15 feet below grade. Shield believes that the subsurface utilities west of the former UST area and south of Burnt Poplar Road are not potential pathways for petroleum migration.

Airborne transmission of petroleum contaminated soil particles is unlikely to affect on-site or off-site areas, due to the known depth of occurrence. No apparent surface water migration routes were noted at the site or on properties in close proximity to the site.

3.0 SOIL INVESTIGATION

3.1 Soil Description

Samples from the previously stockpiled soils were collected on June 8, 1993 and analyzed at a

state certified laboratory for volatile organics (Method 8240), semi-volatile organics (Method 8270), PCBs and TCLP Metals. These soils were loaded and transported by Long Brothers of Summerfield, Inc. to the Lee Brick & Tile facility in Sanford, North Carolina for disposal. Soil disposal manifest records are shown in Appendix C.

Soil cover at the Gate City site consists of red/tan/brown silty clay. A grey partially weathered rock layer was found at 30 feet and is underlain by competent bedrock at a depth of approximately 50-55 feet below grade. The silty clays are consistent with soil descriptions shown in the United States Department of Agriculture Soil Conservation Service Report. The General Soil Map for Guilford County in this publication shows the soils in this area to be predominantly of the Enon-Mecklenburg association: gently sloping and sloping, well drained soils that have a sandy clay loam, clay, or clay subsoil on uplands. The permeability of these soils in the saturated zone (depths > 5 feet) is shown to range from 0.2 to 0.6 inches/hour. The risk of corrosion to uncoated steel for these soils is shown as high.

Soil borings were screened at 5 foot intervals using an organic vapor analyzer (OVA) during the installation of monitoring wells MW-1 to MW-6. The OVA readings ranged from 4.5 parts per million (ppm) to < 1 ppm. The sample with the highest reading from each of monitoring wells MW-4 to MW-6 was sent off to a state certified laboratory and analyzed for total petroleum hydrocarbons by EPA Method 5030/8015 and 3550/8015. Laboratory results showed none detected. Based upon these results and the depth of contaminated soils encountered during the UST closure activities, any contaminated soils remaining in place appear to at or below the seasonal high water level at the site. The vertical and horizontal extent of the petroleum hydrocarbon affected soils has been defined. Screening and laboratory results for soil are summarized in Table 2 and the laboratory report is attached as part of Appendix D. Boring Logs and Soil Descriptions are included as part of Appendix E. A concentration map of total TPH in soils is given as Figure 4.

3.2 Site Geology

The Gate City site is located within the Piedmont physiographic province. Surface terrain is generally rolling hills and moderately steep valleys formed by stream erosion. Average relief is approximately 100 to 150 feet between upland areas and valleys.

The Gate City site is situated immediately west of an upland ridge that forms a drainage divide between nearby tributary streams. Figure 1 shows that surface drainage west of the site is to a small stream that flows south to the East Fork of the Deep River, which flows south into High Point Lake. South and east of the site surface drainage is into tributaries of the Long Branch, which also flows south into Highpoint Lake.

The North Carolina State Geologic Map shows the subsurface geology in the vicinity of the Gate City site to be of the Carolina Slate Belt. The Charlotte Belt meets the Carolina Slate Belt approximately three miles northwest of the site.

The Carolina Slate Belt is typified by volcanogenic sedimentary rocks and felsic to mafic plutonic and volcanic igneous rocks. The typical metamorphic rock includes sequences of felsic, intermediate, and mafic metavolcanic and metasedimentary rock.

4.0 GROUNDWATER INVESTIGATION

4.1 Monitoring Well Installations and Geoprobe Survey

During May 1993, Shield was contracted to conduct groundwater assessment activities at the site. Shield subsequently supervised installation of shallow monitoring wells MW-1 through MW-3 in May 1993. Shield contracted SAEDACCO, Inc. of Belmont, North Carolina to drill and install the shallow monitoring wells. The shallow monitoring wells are constructed of 2-inch diameter PVC well screen and riser pipe. All shallow wells were installed using a hollow stem auger drill rig.

A geoprobe survey was conducted in August 1993 to further define the horizontal extent of petroleum hydrocarbon contamination in the shallow groundwater. Eight geoprobe points were driven into groundwater and samples were collected. The depth to groundwater at that time was between 10 and 12 feet below grade. The groundwater samples were analyzed with a mobile gas chromatograph (GC) for benzene, toluene, ethylbenzene and xylene (BTEX) compounds. Low levels of BTEX compounds were detected in samples GP-2, GP-3, GP-4, GP-5 and GP-7. The location of the geoprobe points is shown in Figure 5 and a copy of the GC graph printouts (Geoprobe Screening Report) is in Appendix F. The results of the Geoprobe Survey are given as Table 3.

Shallow monitoring wells MW-4 through MW-6 were installed by SAEDACCO in September 1993. Shield contracted Aquadrill, Inc. to drill and install the vertical extent monitoring well VEW-1. This well also includes a 6-inch diameter PVC outer casing that extends to 51 feet below grade. The vertical extent well was installed using an air rotary drill rig. After installation, Shield personnel developed the newly installed monitoring wells by purging at least five well volumes of groundwater from each monitoring well. Well construction records and gauge reports are shown in Appendix G. Monitoring Well Locations are shown in Figure 6.

4.2 Site Hydrogeology

The typical hydrogeologic unit in the Piedmont is characterized by a single aquifer formed by the residuum and the underlying consolidated bedrock. Saprolite, derived from weathering of the parent rock, may exhibit relict structures and textures of the parent rock. The saprolite unit acts as a reservoir to receive and store water, which recharges the underlying bedrock. Groundwater in the bedrock is transmitted through and stored in secondary joints and fractures. Bedrock porosity is usually less than the porosity of the residuum (saprolite overburden).

The bore logs from the six shallow monitoring wells installed in May and September 1993 by Shield show red to tan to brown silty clay. No significant relict structures or texturing were noted to a depth of 30 feet below grade. The bore log from VEW-1 shows a lithological change at 30 feet below grade to a grey weathered rock with relict structures. The underlying bedrock unit was encountered at 51 feet below grade in VEW-1 with a fracture zone occurring at 55 feet below grade. Since no obvious confining layer was encountered during drilling of VEW-1, Shield believes the upper 51 feet of soil at the site represents one aquifer.

4.3 Shield Monitoring Well Sampling

In May and September 1993, Shield personnel sampled monitoring wells MW-1 through MW-6 and VEW-1. Depth to water measurements were collected and the monitoring wells were purged of at least five well volumes of groundwater using new disposable plastic bailers, prior to sampling (see Appendix H for QA/QC protocols).

Monitoring well groundwater samples were collected from the wells and placed in laboratory supplied and preserved glassware. Afterward, samples were labeled, prepared and shipped to the analytical laboratory using EPA approved chain of custody procedures.

4.4 Shield Groundwater Sample Results

Monitoring well samples MW-1 through MW-6 and VEW-1 were analyzed for EPA Method 601 compounds and EPA Method 602 compounds including xylenes, methyl tert-butyl ether and isopropyl ether, for EPA Method 625 compounds and lead. Laboratory analytical results indicate that gasoline and diesel range petroleum hydrocarbon constituents were present in the collected samples. Samples from MW-3 and MW-4 did not exhibit constituents above the North Carolina groundwater quality standards (*Classifications and Water Quality Standards Applicable to the Groundwater of North Carolina*, 15A NCAC 2L.0202, revised on November 8, 1993. The water supply well (WSW) sample collected from the residence at 1619 Burnt Poplar Road was taken from a tap inside a trailer at the site. This water sample was analyzed for EPA

Methods 601 and 602 compounds. There were no compounds detected above the 15A NCAC 2L.0202 standard.

Lead levels ranged from non-detect (ND) at several points to 0.016 mg/L at MW-4. Groundwater analytical results are summarized in Table 5. Appendix D contains monitoring well groundwater sample results laboratory documentation as well as Chain of Custody forms.

4.5 Lateral Extent of Gasoline Affected Groundwater and Plume Contour Map

Shield has constructed a groundwater sample contour map for total volatile organic compound (VOC) concentrations (see Figure 7 for shallow well total VOC isoconcentration map). Total VOC concentrations were first plotted at individual well or boring locations. Contour lines were then drawn through points of approximately equal total VOC groundwater concentration. The lateral extent of groundwater VOC constituents has been approximately delineated in Figure 7 by the contour line labeled ND.

The geoprobe survey was undertaken to further define the nature and extent of any petroleum based contamination at the site. A review of the monitoring well laboratory analytical results and the geoprobe sample GC graphs show a very good correlation between the two.

The location of A-A' & B-B' cross sections is given as Figure 8 and the isoconcentration cross section maps of A-A' and B-B' are included as Figure 9 and Figure 10, respectively. Based on the groundwater sample VOC concentration map and the geoprobe survey, VOC constituents that exceed the North Carolina 15A NCAC 2L.0202 groundwater standards are restricted to the following areas.

- The immediate area west of the former diesel fuel UST.

4.6 Vertical Extent of Hydrocarbon Affected Groundwater

A groundwater sample was collected from the vertical extent monitoring well VEW-1 on September 8, 1993. Sample results indicated total VOC constituents of 7.28 parts per billion (ppb). Only chloroform and benzene were detected above the 15A NCAC 2L.0202 standard in this sample (see Table 2 for summary of VEW-1 results and Appendix E for laboratory documentation).

VEW-1 is 61 feet deep and screened between approximately 61 and 51 feet below grade. Based upon three order of magnitude decreases in contaminant concentrations and the low level of contaminants in this well, the vertical extent of the plume has been defined.

4.7 Well Head Survey, Well Water Levels and Shallow Groundwater Contour Map

Shield personnel surveyed the relative elevations of the top of the casing of all wells to the nearest 0.01 foot (see Table 4 for Well Construction/Gauge Details and Figure 11 for Potentiometric Surface Map). Shield personnel also collected depth to water measurements from the monitoring wells at the site on September 21, 1993. Using the well survey data and the depth to water information, the static water level elevations for the monitoring wells have been calculated.

The shallow groundwater at the site appears to be migrating in a westerly direction across the site, in the area where petroleum hydrocarbon constituents are present in the groundwater, in response to a hydraulic gradient of approximately .02 feet per foot between MW-1 and MW-6. The shallow groundwater flow direction corresponds to the general topography of the local area. The depth to the seasonal high water table is approximately 6 feet below grade based upon observations during UST closure activities.

4.8 Estimated Seepage Velocity

Using the estimated hydraulic conductivity for the Enon-Mecklenburg soil type and the calculated groundwater surface gradient, the approximate groundwater seepage velocity was determined. An effective porosity of the soil has been estimated at 40 percent. This estimate is typical and representative of clay soils (based on the specific yield information supplied in *Applied Hydrogeology, Second Edition*, C. W. Fetter, 1988). An average groundwater seepage velocity was calculated using a modified version of Darcy's Law, as follows:

$$v = \frac{Ki}{n} \qquad v = \frac{(2.4 \times 10^{-4}\,\text{cm/sec})\,(.02)}{0.40} = 1.2 \times 10^{-5}\ \text{cm/sec}$$

v = seepage velocity in cm/sec
K = average hydraulic conductivity (2.4×10^{-4} cm/sec)
i = groundwater surface gradient (0.02)
n = effective porosity (0.40)

The seepage velocity is approximately 1.2×10^{-5} cm/sec $\frac{3.94 \times 10^{-7}\ ft/sec}{3.1 \times 10^{-8}\ yr}$

$= 8.127\ ft/yr$

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Based on Shield's groundwater assessment activities, Shield concludes that the hydrocarbon affected groundwater at the Gate City site exists in one distinct location:

> The largest plume concentrations occur in the vicinity of monitoring well MW-2. The available potentiometric data shows generalized flow from the east. Data indicates the plume was caused by activities conducted on the Gate City site.

The lateral extent of petroleum hydrocarbon affected groundwater has been delineated downgradient of the generalized flow. The vertical extent of petroleum hydrocarbon affected groundwater has been adequately delineated for the petroleum hydrocarbons from the UST releases as indicated in the vertical extent well (VEW-1) results.

5.2 Recommendations

Shield recommends the following course of action:

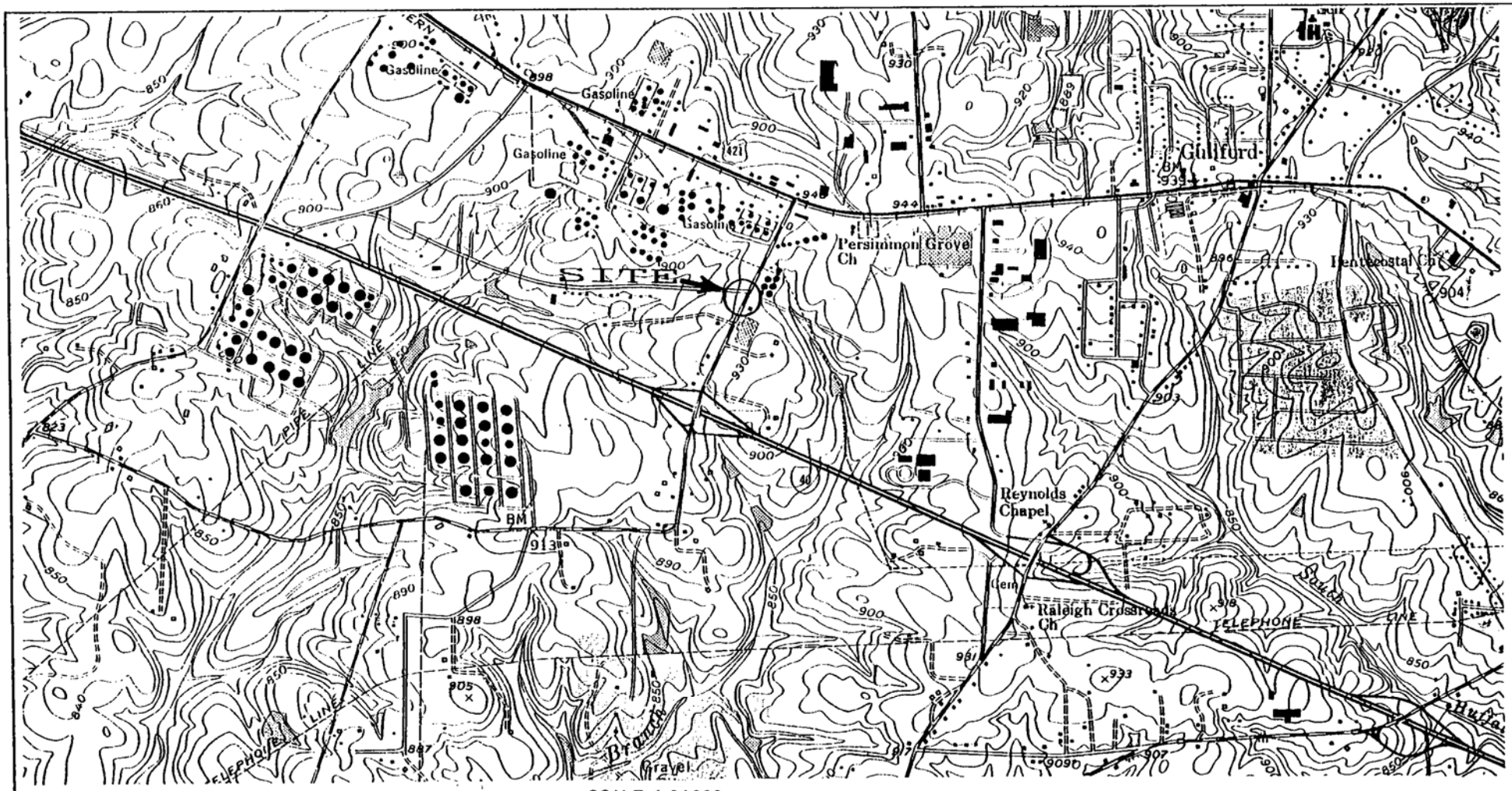
- No active remediation of the soils and groundwater immediately west-southwest of the former UST area is recommended at this time.
- Monitoring only should be adequate to detect any significant changes to groundwater quality at the site.
- Shield recommends that a Corrective Action Plan be written for the site. Corrective action should include the necessary aquifer testing and collection of groundwater chemistry data to accurately predict the migration and degradation of the petroleum hydrocarbon constituents in the groundwater. This corrective action should also describe a plan for monitoring the upgradient and downgradient groundwater quality at the site.

6.0 LIMITATIONS

This report has been prepared for the exclusive use of Branch Banking and Trust Company of

Greensboro, North Carolina for specific application to the referenced site located in Guilford County, Greensboro, North Carolina. The assessment was conducted based on the scope of work and level of effort desired by the client and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of North Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

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

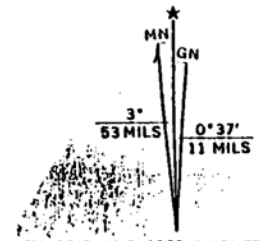


SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER



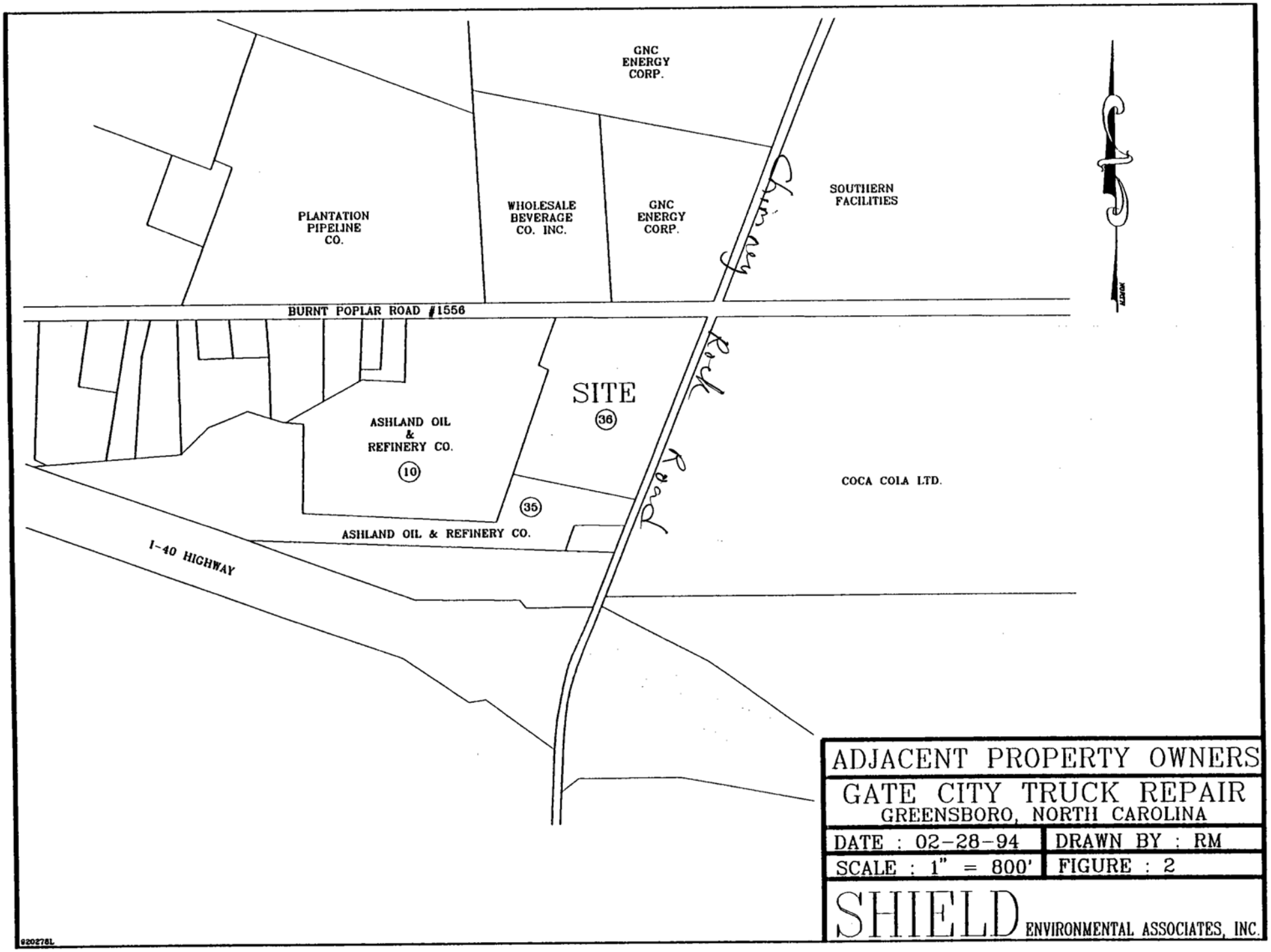
UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

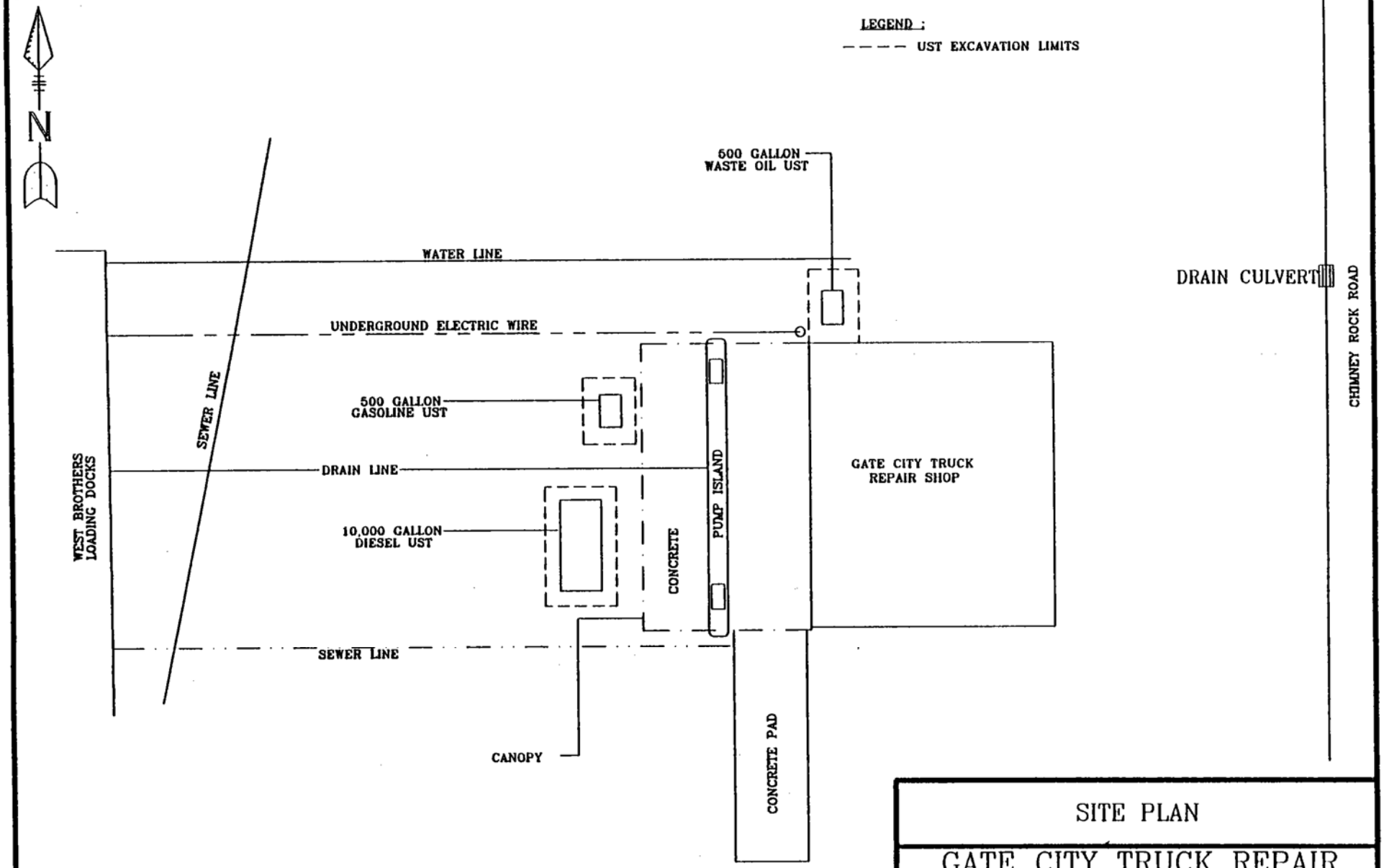
QUADRANGLE LOCATION

GUILFORD, N. C.

SITE LOCATION MAP	
GATE CITY TRUCK REPAIR	
DATE : 03-11-93	DRAWN BY : RM
SCALE : AS SHOWN	FIGURE : 1

SHIELD ENVIRONMENTAL ASSOCIATES, INC.


GNC
ENERGY
CORP.
PLANTATION
PIPELINE
CO.
WHOLESALE
BEVERAGE
CO. INC.
GNC
ENERGY
CORP.
SOUTHERN
FACILITIES
BURNT POPLAR ROAD #1556
SITE
36
ASHLAND OIL
&
REFINERY CO.
10
35
ASHLAND OIL & REFINERY CO.
I-40 HIGHWAY
COCA COLA LTD.
NORTH
ADJACENT PROPERTY OWNERS
GATE CITY TRUCK REPAIR
GREENSBORO, NORTH CAROLINA
DATE : 02-28-94
DRAWN BY : RM
SCALE : 1" = 800'
FIGURE : 2
SHIELD ENVIRONMENTAL ASSOCIATES, INC.
020278L



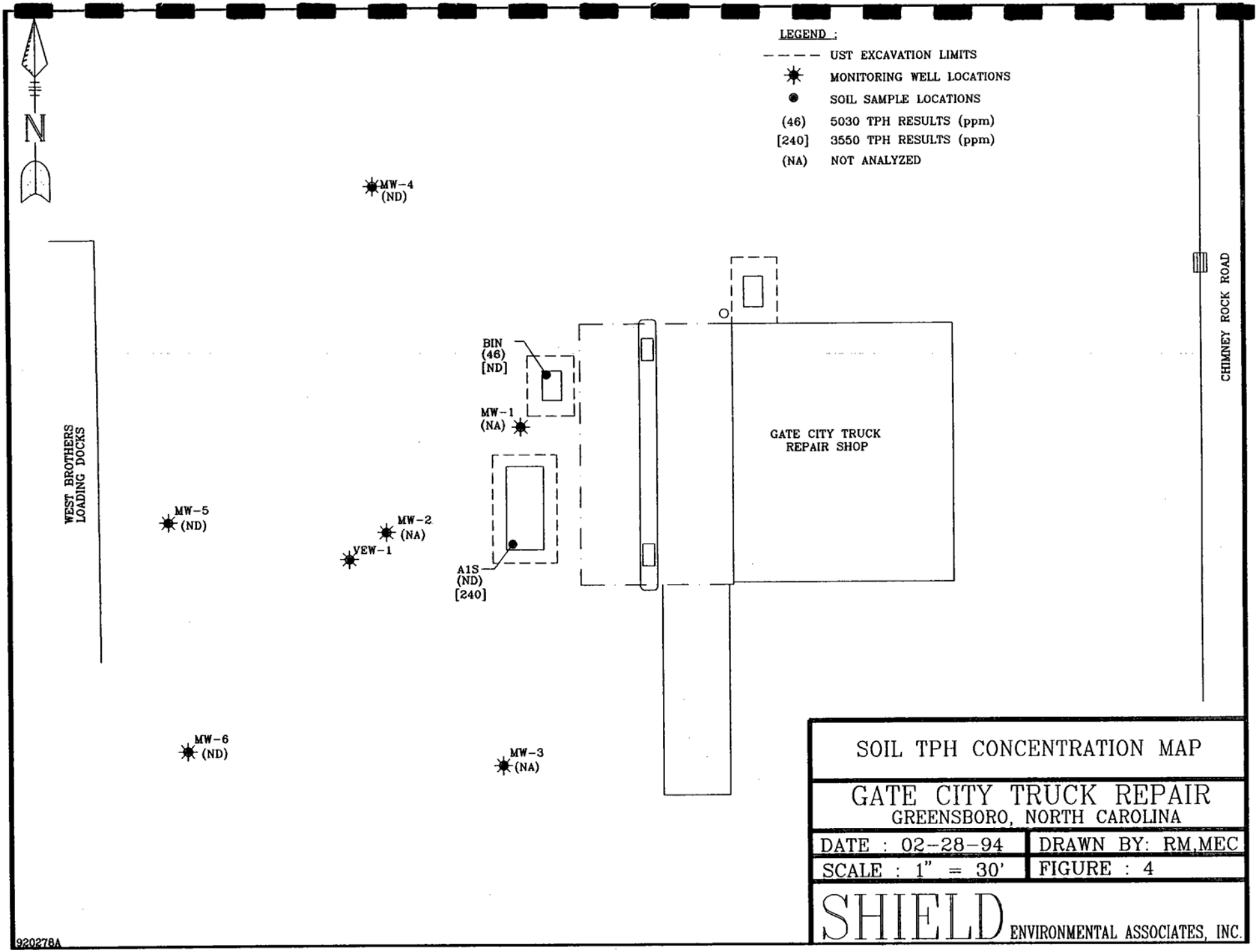
SITE PLAN

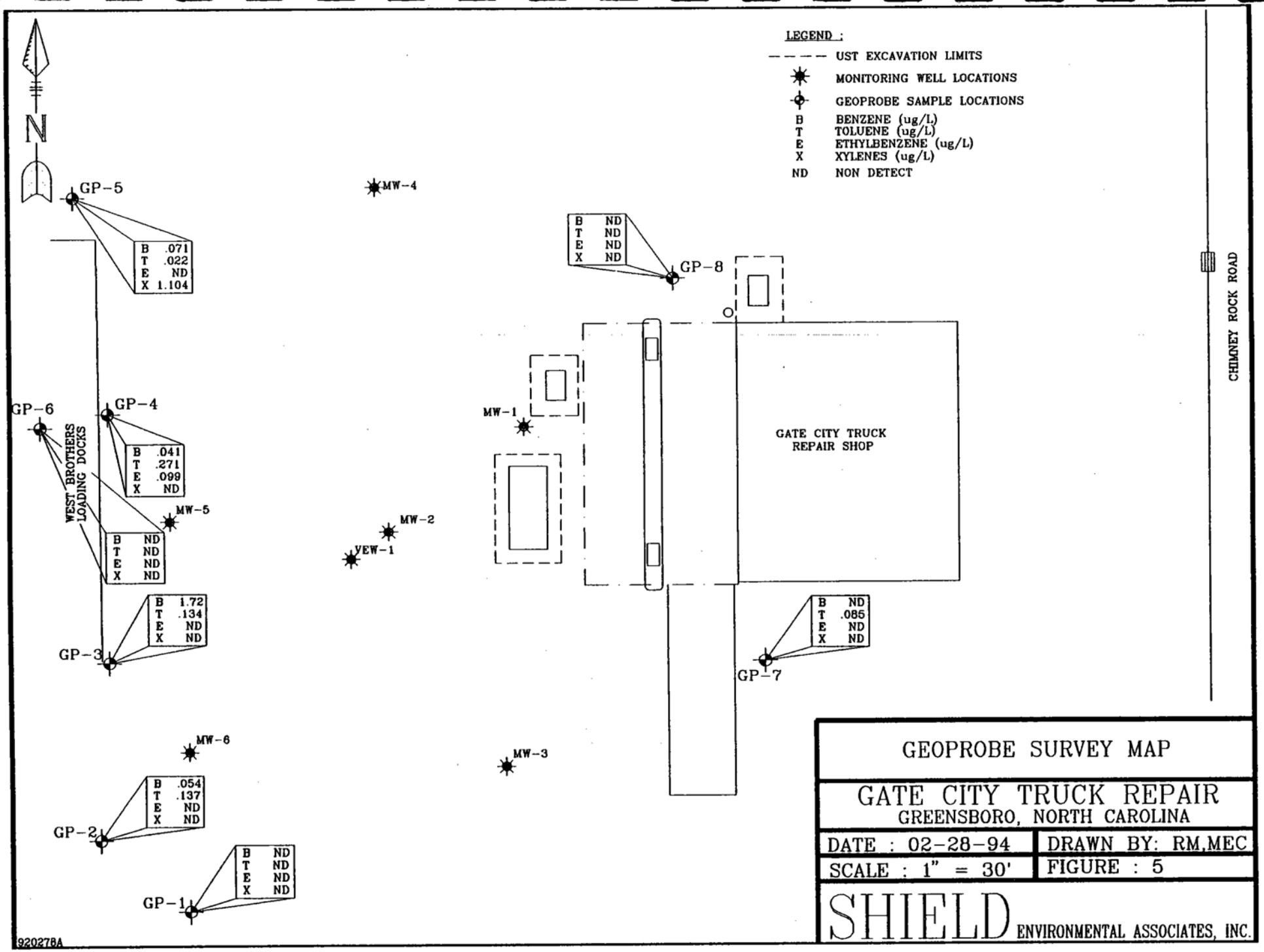
GATE CITY TRUCK REPAIR
GREENSBORO, NORTH CAROLINA

DATE : 02-28-94	DRAWN BY: RM,MEC
SCALE : 1" = 30'	FIGURE : 3

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

920278A


LEGEND :
UST EXCAVATION LIMITS
MONITORING WELL LOCATIONS
SOIL SAMPLE LOCATIONS
(46) 5030 TPH RESULTS (ppm)
[240] 3550 TPH RESULTS (ppm)
(NA) NOT ANALYZED
N
MW-4 (ND)
WEST BROTHERS LOADING DOCKS
BIN (46) [ND]
MW-1 (NA)
GATE CITY TRUCK REPAIR SHOP
CHIMNEY ROCK ROAD
MW-5 (ND)
MW-2 (NA)
VEW-1
A1S (ND) [240]
MW-6 (ND)
MW-3 (NA)
SOIL TPH CONCENTRATION MAP
GATE CITY TRUCK REPAIR
GREENSBORO, NORTH CAROLINA
DATE : 02-28-94
DRAWN BY: RM,MEC
SCALE : 1" = 30'
FIGURE : 4
SHIELD ENVIRONMENTAL ASSOCIATES, INC.
920278A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MONITORING WELL LOCATIONS
GEOPROBE SAMPLE LOCATIONS
B BENZENE (ug/L)
T TOLUENE (ug/L)
E ETHYLBENZENE (ug/L)
X XYLENES (ug/L)
ND NON DETECT
N
GP-5
B .071
T .022
E ND
X 1.104
MW-4
B ND
T ND
E ND
X ND
GP-8
CHIMNEY ROCK ROAD
GP-6
GP-4
B .041
T .271
E .099
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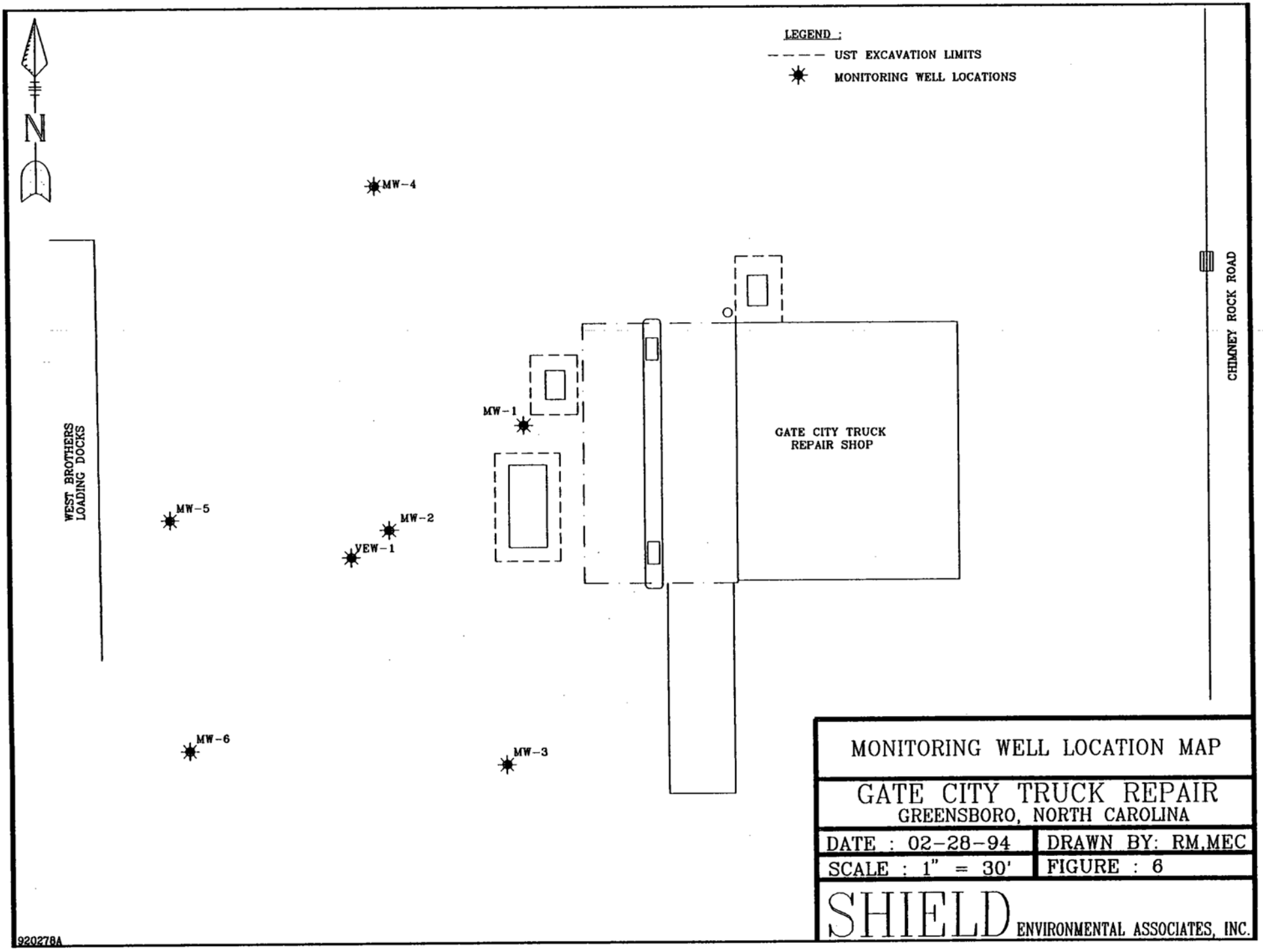
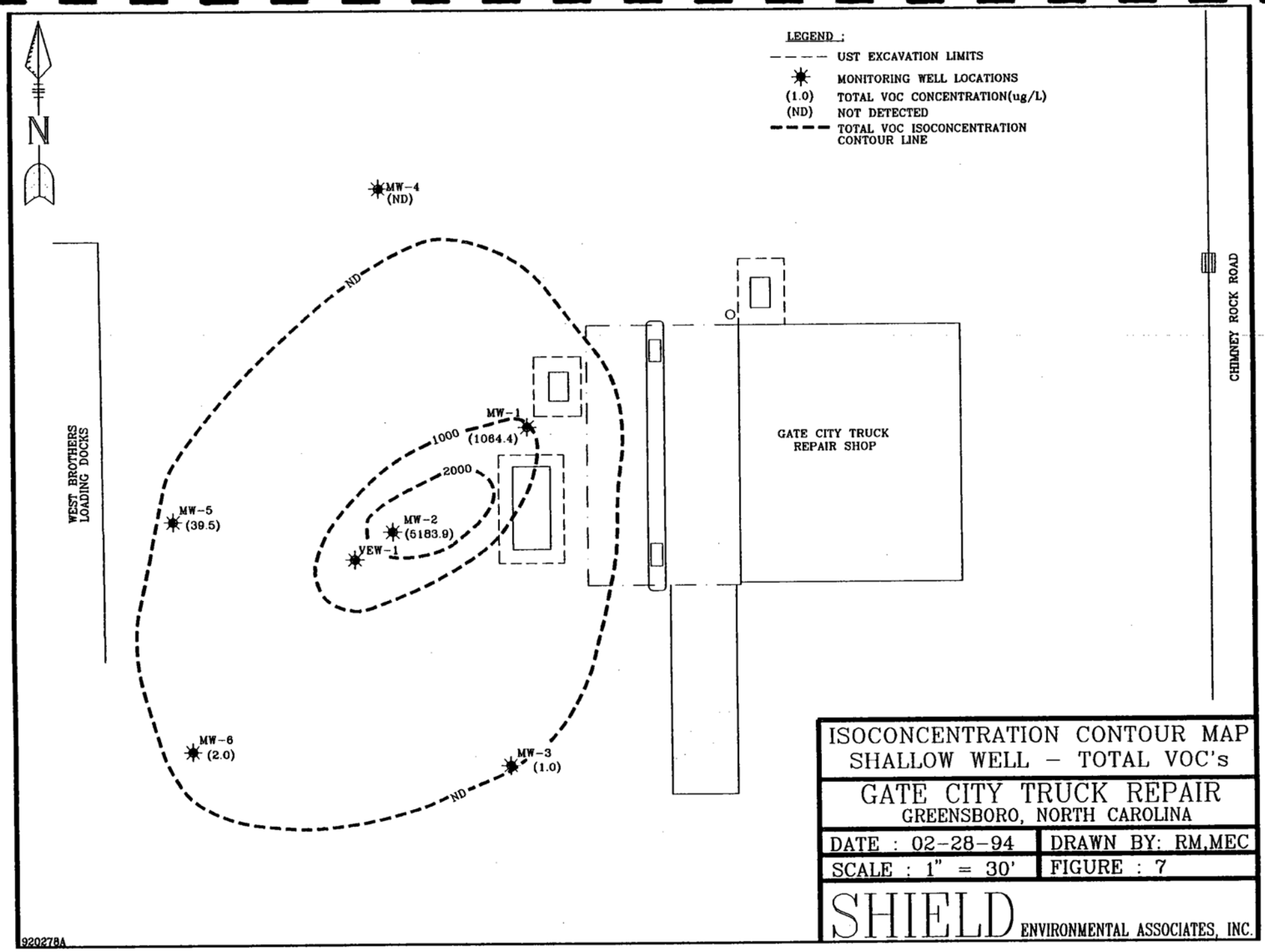
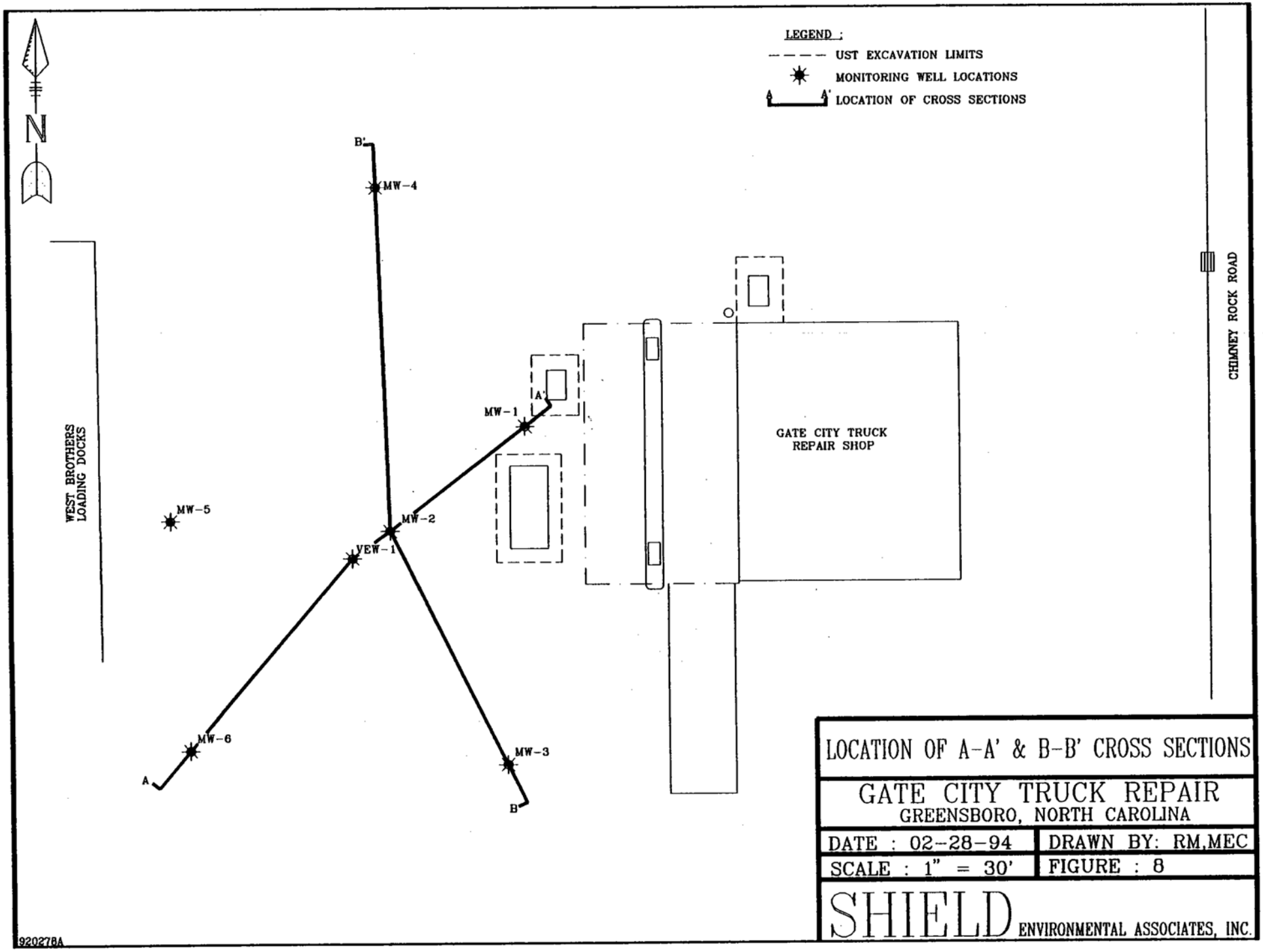
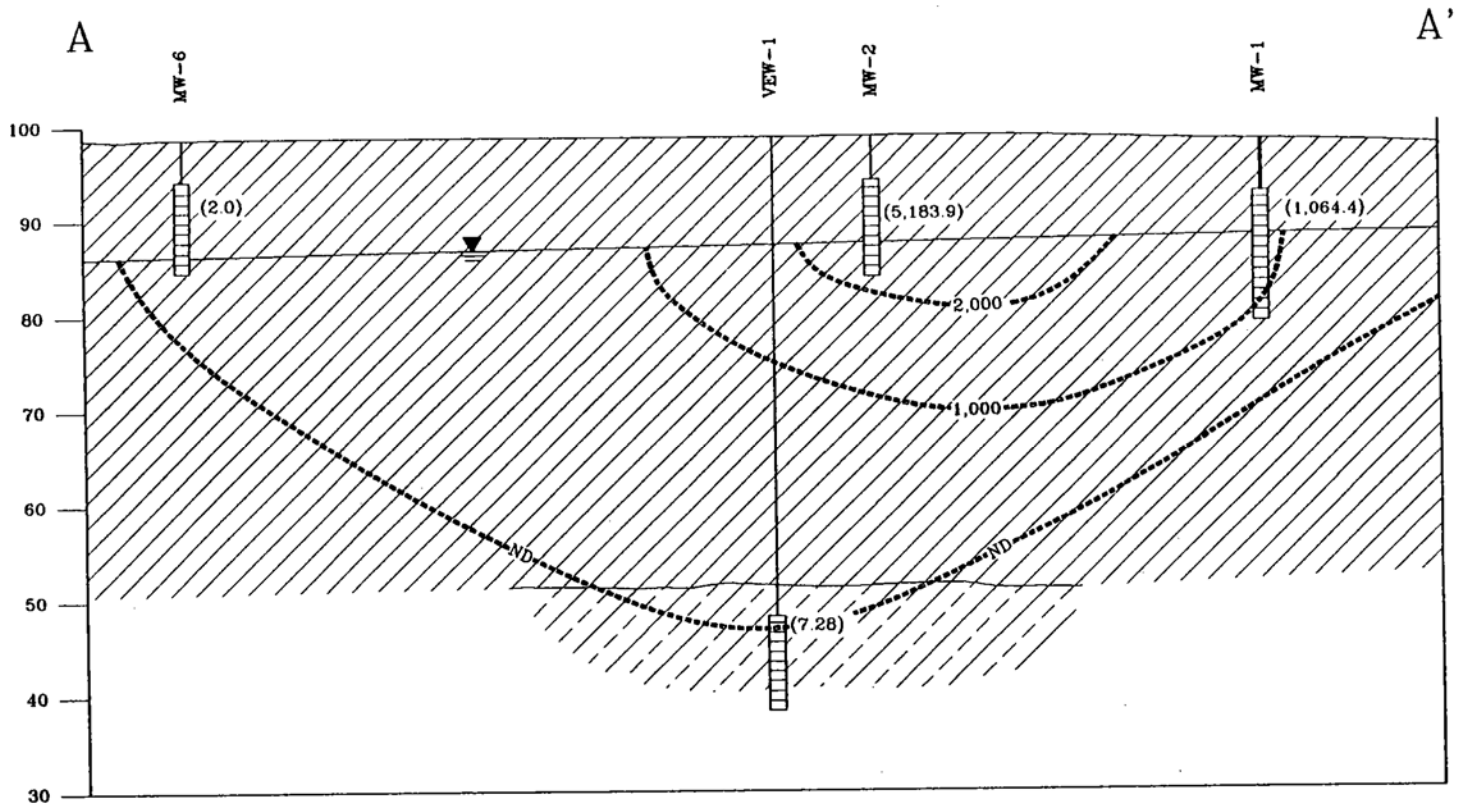
WEST BROTHERS LOADING DOCKS
MW-5
B ND
T ND
E ND
X ND
MW-1
GATE CITY TRUCK REPAIR SHOP
MW-2
VEW-1
B 1.72
T .134
E ND
X ND
GP-3
B ND
T .085
E ND
X ND
GP-7
MW-6
MW-3
B .054
T .137
E ND
X ND
GP-2
B ND
T ND
E ND
X ND
GP-1
920278A
GEOPROBE SURVEY MAP
GATE CITY TRUCK REPAIR
GREENSBORO, NORTH CAROLINA
DATE : 02-28-94
DRAWN BY: RM,MEC
SCALE : 1" = 30'
FIGURE : 5
SHIELD ENVIRONMENTAL ASSOCIATES, INC.


LEGEND :
UST EXCAVATION LIMITS
MONITORING WELL LOCATIONS
N
MW-4
MW-1
MW-5
MW-2
VEW-1
MW-6
MW-3
WEST BROTHERS LOADING DOCKS
GATE CITY TRUCK REPAIR SHOP
CHIMNEY ROCK ROAD
MONITORING WELL LOCATION MAP
GATE CITY TRUCK REPAIR
GREENSBORO, NORTH CAROLINA
DATE : 02-28-94
DRAWN BY: RM,MEC
SCALE : 1" = 30'
FIGURE : 6
SHIELD ENVIRONMENTAL ASSOCIATES, INC.
920278A


LEGEND :
UST EXCAVATION LIMITS
MONITORING WELL LOCATIONS
(1.0) TOTAL VOC CONCENTRATION(ug/L)
(ND) NOT DETECTED
TOTAL VOC ISOCONCENTRATION CONTOUR LINE
N
MW-4 (ND)
ND
1000
2000
MW-1 (1064.4)
MW-2 (5183.9)
VEW-1
MW-5 (39.5)
MW-6 (2.0)
MW-3 (1.0)
ND
WEST BROTHERS LOADING DOCKS
GATE CITY TRUCK REPAIR SHOP
CHIMNEY ROCK ROAD
ISOCONCENTRATION CONTOUR MAP
SHALLOW WELL – TOTAL VOC's
GATE CITY TRUCK REPAIR
GREENSBORO, NORTH CAROLINA
DATE : 02-28-94
DRAWN BY: RM,MEC
SCALE : 1" = 30'
FIGURE : 7
SHIELD ENVIRONMENTAL ASSOCIATES, INC.
920278A


LEGEND :
UST EXCAVATION LIMITS
MONITORING WELL LOCATIONS
A A' LOCATION OF CROSS SECTIONS
N
B'
MW-4
WEST BROTHERS LOADING DOCKS
MW-5
MW-1
A'
MW-2
VEW-1
GATE CITY TRUCK REPAIR SHOP
CHIMNEY ROCK ROAD
MW-6
A
MW-3
B
LOCATION OF A-A' & B-B' CROSS SECTIONS
GATE CITY TRUCK REPAIR
GREENSBORO, NORTH CAROLINA
DATE : 02-28-94
DRAWN BY: RM,MEC
SCALE : 1" = 30'
FIGURE : 8
SHIELD ENVIRONMENTAL ASSOCIATES, INC.
920278A



LEGEND:

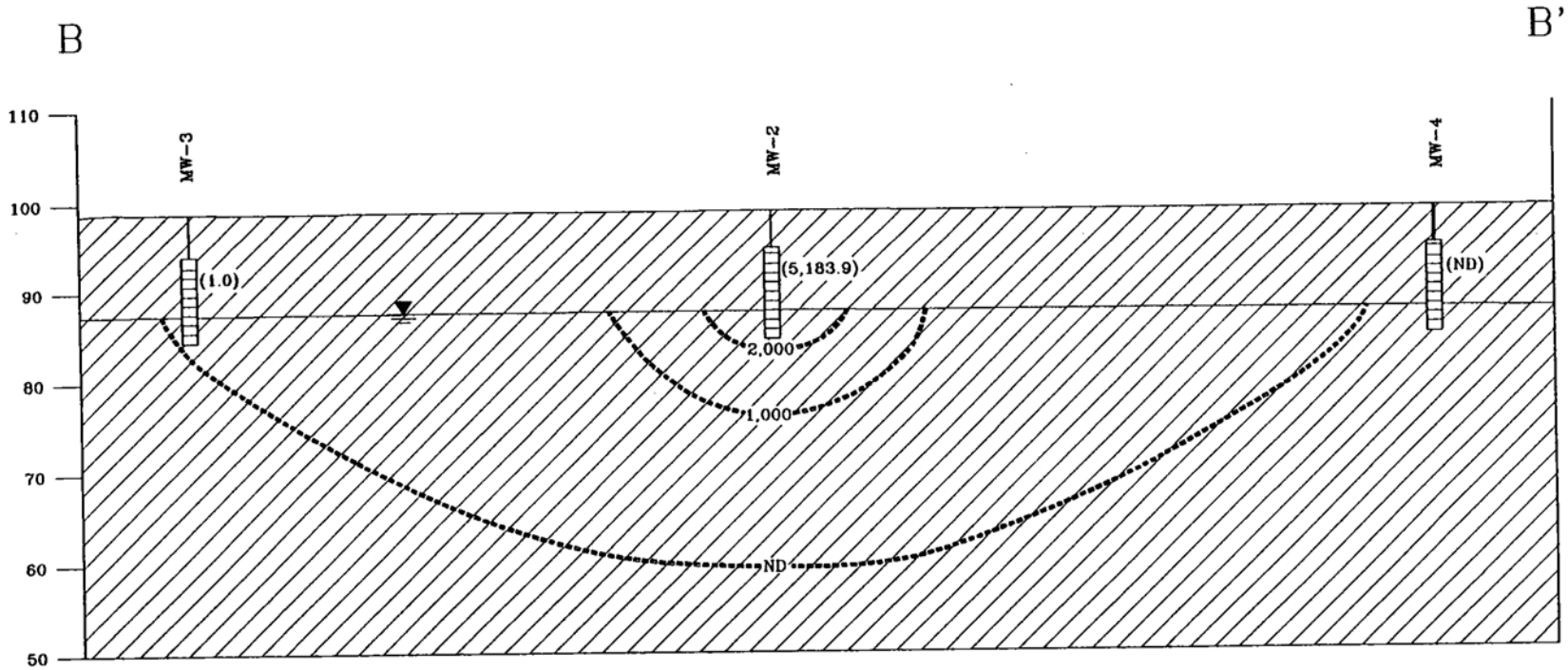
- RED GRADING TO TAN SILTY CLAYS
- MONITORING WELL SCREEN INTERVAL
- WATER TABLE
- 2,000 TOTAL VOLATILE ORGANIC COMPOUNDS ISOCONCENTRATION LINE (ug/L)
- (ND) NOT DETECTED
- (1064.4) TOTAL VOLATILE ORGANIC COMPOUNDS (ug/L)
- PARTIALLY WEATHERED GRADING TO COMPETENT METAMORPHOSED GABBRO AND DIORITE
- GRADATIONAL GEOLOGIC CONTACT

0 10 20 30

HORIZONTAL AND VERTICAL SCALE : 1" = 20'

GEOLOGIC CROSS SECTION A – A'	
GATE CITY TRUCK REPAIR GREENSBORO, NORTH CAROLINA	
DATE : 10-14-93	DRAWN BY : RM
SCALE : AS SHOWN	FIGURE : 9
SHIELD ENVIRONMENTAL ASSOCIATES, INC.	

920278CS



LEGEND:

- RED GRADING TO TAN SILTY CLAYS
- MONITORING WELL SCREEN INTERVAL
- WATER TABLE
- ----2,000---- TOTAL VOLATILE ORGANIC COMPOUNDS ISOCONCENTRATION LINE (ug/L)
- (ND) NOT DETECTED
- (5,183.9) TOTAL VOLATILE ORGANIC COMPOUNDS (ug/L)

0 10 20 30

HORIZONTAL AND VERTICAL SCALE : 1" = 20'

GEOLOGIC CROSS SECTION B – B'	
GATE CITY TRUCK REPAIR GREENSBORO, NORTH CAROLINA	
DATE : 10-14-93	DRAWN BY : RM
SCALE : AS SHOWN	FIGURE : 10
SHIELD ENVIRONMENTAL ASSOCIATES, INC.	

920278CS

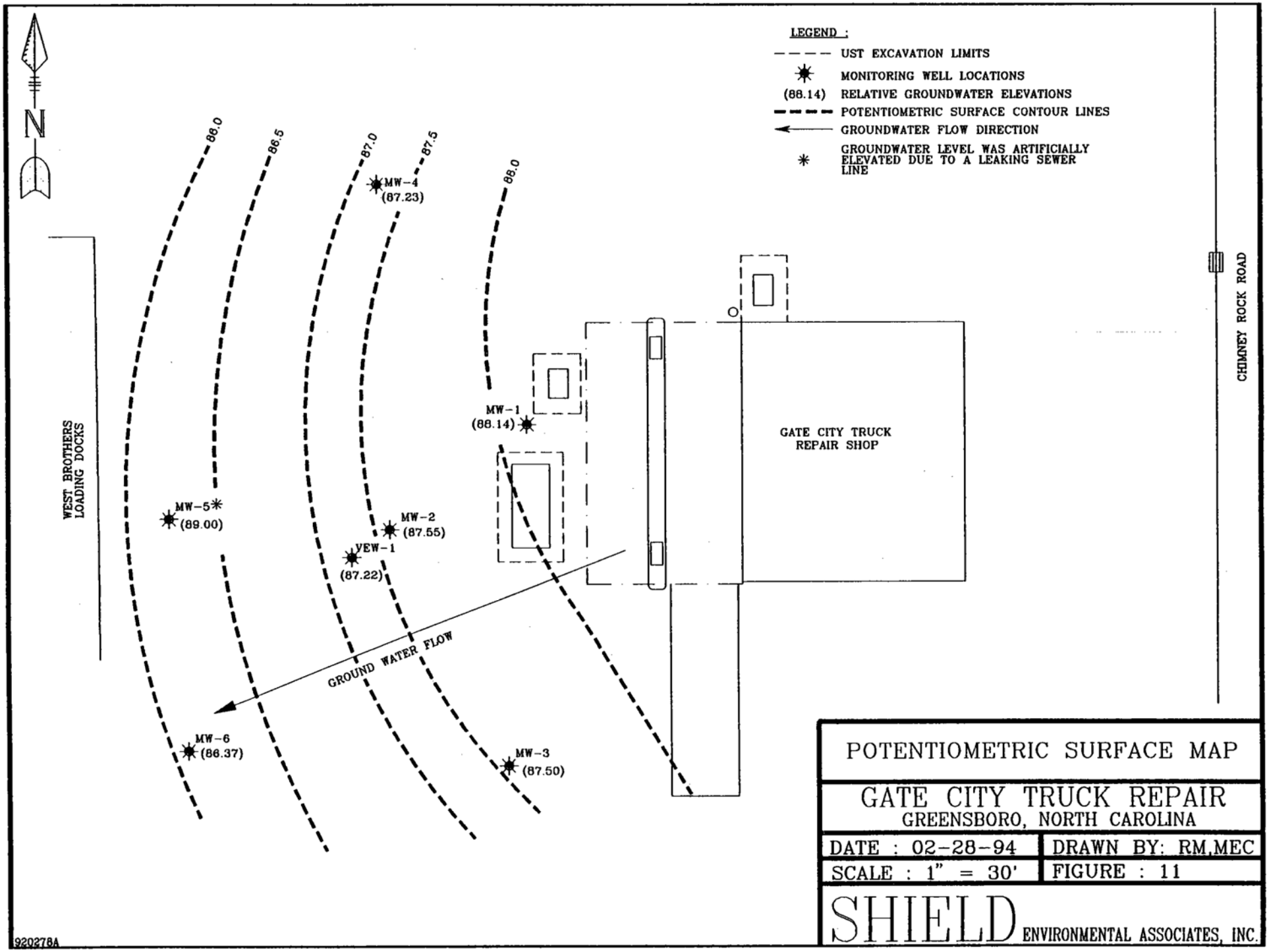

LEGEND :
UST EXCAVATION LIMITS
MONITORING WELL LOCATIONS
(88.14) RELATIVE GROUNDWATER ELEVATIONS
POTENTIOMETRIC SURFACE CONTOUR LINES
GROUNDWATER FLOW DIRECTION
GROUNDWATER LEVEL WAS ARTIFICIALLY ELEVATED DUE TO A LEAKING SEWER LINE
N
86.0
86.5
87.0
87.5
88.0
MW-4 (87.23)
MW-1 (88.14)
MW-5 (89.00)
MW-2 (87.55)
VEW-1 (87.22)
MW-6 (86.37)
MW-3 (87.50)
GROUND WATER FLOW
WEST BROTHERS LOADING DOCKS
GATE CITY TRUCK REPAIR SHOP
CHIMNEY ROCK ROAD
POTENTIOMETRIC SURFACE MAP
GATE CITY TRUCK REPAIR
GREENSBORO, NORTH CAROLINA
DATE : 02-28-94
DRAWN BY: RM,MEC
SCALE : 1" = 30'
FIGURE : 11
SHIELD ENVIRONMENTAL ASSOCIATES, INC.
920278A

TABLE 1 ADJACENT PROPERTY OWNERS GATE CITY TRUCK REPAIR SHIELD NUMBER 920278							
BOOK#	BLOCK #	LOT#	OWNER	STREET	CITY	STATE	ZIP
3552	0960	36	SITE	6301 Burnt Poplar Drive	Greensboro	NC	28150
3552	0960	35	Ashland Oil & Refinery	6311 Burnt Poplar Drive	Greensboro	NC	28150
3552	0960	10	Ashland Oil & Refinery	6311 Burnt Poplar Drive	Greensboro	NC	28150
3552	0960	44	Coca-Cola Ltd	8200 Capital Drive	Greensboro	NC	28150
3552	0960	01	Southern Facilities	115 Chimney Rock Road	Greensboro	NC	28150
3552	0960	03	GNC Energy Corp.	100 Chimney Rock Road	Greensboro	NC	28150
3552	0960	03	GNC Energy Corp.	100 Chimney Rock Road	Greensboro	NC	28150
3552	0960	02	American Wholesale Beverage Co.	6310 Chimney Rock Road	Greensboro	NC	28150

TABLE 2 FIELD SCREENING AND LABORATORY DATA FOR SOIL GATE CITY TRUCK REPAIR SHIELD NUMBER 920278						
LOCATION	Soil Sample ID	Sample Depth (feet)	Sample Date	OVA ppm Site Screening Evaluation	5030 mg/Kg Laboratory Evaluation	3550 mg/Kg Laboratory Evaluation
MW-1 - installation	MW-1	5	05-21-93	2.0	NA	NA
MW-2 - installation	MW-2	5	05-21-93	4.5	NA	NA
MW-3 - installation	MW-3	5	05-21-93	<1	NA	NA
MW-4 - installation	MW-4	5	09-02-93	<1	ND	ND
MW-4 - installation	MW-4	10	09-02-93	<1	NA	NA
MW-5 - installation	MW-5	5	09-02-93	4.0	ND	ND
MW-5 - installation	MW-5	10	09-02-93	<1	NA	NA
MW-6 - installation	MW-6	5	09-02-93	1.5	ND	ND
MW-6 - installation	MW-6	10	09-02-93	<1	NA	NA
VMW-1 - installation	VMW-1	5	09-07-93	NA	NA	NA
Soil Stockpile	CS-1	Composite	06-08-93	NA	NA	NA

Soil Stockpile Sample (CS-1) was analyzed by EPA Methods 8080, 8270, 8240 and 1311. All analyzed compounds were below the laboratory detection limits except for the following:

8270 Base Neutral Semi-Volatile	Phenanthrene	440 ppb
8240 Volatile Organics	Methylene Chloride	33 ppb
	Acetone	18 ppb
	Toluene	7 ppb
	Ethylbenzene	150 ppb
	Xylenes	450 ppb
1311 RCRA Toxicity Metals	Barium	1.41 ppm

TABLE 3 GEOPROBE SURVEY GATE CITY TRUCK REPAIR SHIELD NUMBER 920278						
LOCATION	Date	Soil Sample ID	Site Screening GC			
			Benzene	Toluene	Ethylbenzene	Xylenes
38 ft S of MW-6	08-16-93	GP-1	ND	ND	ND	ND
30 ft SW of MW-6	08-16-93	GP-2	0.054	0.137	ND	ND
30 ft NW of MW-6	08-16-93	GP-3	1.72	0.134	ND	ND
60 ft N of GP-3	08-16-93	GP-4	0.041	0.271	0.099	ND
10 ft N of Loading Docks	08-16-93	GP-5	0.071	0.022	ND	1.104
115 ft W of MW-1	08-16-93	GP-6	ND	ND	ND	ND
80 ft SE of MW-1	08-16-93	GP-7	ND	0.085	ND	ND
45 ft NE of MW-1	08-16-93	GP-8	ND	ND	ND	ND

TABLE 4
WELL CONSTRUCTION / GAUGE DETAILS
GATE CITY TRUCK REPAIR
SHIELD NUMBER 920278

DATE	Well Type	Well #	Well Depth (Feet)	Casing Elev. (Feet)	Water Depth (Feet)	Water Elev. (Feet)	Top of Screen (Feet)	Bottom Screen (Feet)	Screened Interval (Feet)
09-07-93	Monitoring	MW-1	19.0	98.14	9.54	88.60	94.14	79.14	4.0-19.0
09-21-93	Monitoring	MW-1	19.0	98.14	10.00	88.14	94.14	79.14	4.0-19.0
09-07-93	Monitoring	MW-2	14.0	98.78	8.73	90.05	94.78	84.78	4.0-14.0
09-21-93	Monitoring	MW-2	14.0	98.78	11.23	87.55	94.78	84.78	4.0-14.0
09-07-93	Monitoring	MW-3	14.0	98.50	9.44	89.06	94.50	84.50	4.0-14.0
09-21-93	Monitoring	MW-3	14.0	98.50	11.00	87.50	94.50	84.50	4.0-14.0
09-07-93	Monitoring	MW-4	14.0	98.60	11.40	87.20	94.60	84.60	4.0-14.0
09-21-93	Monitoring	MW-4	14.0	98.60	11.37	87.23	94.60	84.60	4.0-14.0
09-07-93	Monitoring	MW-5	14.0	98.00	4.13	93.87	94.00	84.00	4.0-14.0
09-21-93	Monitoring	MW-5	14.0	98.00	9.00	89.00	94.00	84.00	4.0-14.0
09-07-93	Monitoring	MW-6	14.0	98.96	12.12	86.84	94.96	84.96	4.0-14.0
09-21-93	Monitoring	MW-6	14.0	98.96	12.59	86.37	94.96	84.96	4.0-14.0
09-21-93	Vertical Extent	VEW-1	61.0	99.04	11.82	87.22	48.04	38.04	51.0-61.0

TABLE 5
FIELD SCREENING
AND LABORATORY DATA FOR GROUNDWATER
GATE CITY TRUCK REPAIR
SHIELD NUMBER 920278

		EPA 601				EPA 602									EPA 625		Metals
Well ID	Sample Date	1,2-Dibromo Ethane	Bromodichloro Methane	Methylene Chloride	Chloroform	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl-tert-Butyl Ether	Isopropyl Ether	1,4-Dichloro Benzene	1,2-Dichloro Benzene	TOTAL VOC's	Phenol	Bis(2-eh) Phthalate	Lead
MW-1	06-01-93	3.4	ND	ND	ND	250	47	ND	640	50	74	ND	ND	1064.4	ND	ND	NA
MW-2	06-01-93	7.9	ND	ND	ND	2200	36	900	1500	240	300	ND	ND	5183.9	12	ND	NA
MW-3	06-01-93	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	NA
MW-4	09-08-93	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	0	NA	ND	0.016
MW-5	09-08-93	NA	1.5	ND	38	ND	ND	ND	ND	ND	NA	ND	ND	39.5	NA	ND	0.012
MW-6	09-08-93	NA	ND	ND	0.6	ND	ND	ND	1.4	ND	NA	ND	ND	2	NA	43	ND
VEW-1	09-08-93	NA	ND	ND	0.88	4.5	ND	ND	1.9	ND	NA	ND	ND	7.28	NA	ND	ND
WSW	11-23-93	ND	ND	4	ND	ND	ND	ND	3	ND	ND	1	1	9	NA	NA	NA

NOTES Results are in μg/L (parts per billion) except for lead, which is given in mg/L.
ND indicates result below laboratory detection limit
NA indicates Not Analyzed

TANK CLOSURE ASSESSMENT REPORT
GATE CITY TRUCK REPAIR
GUILFORD COUNTY
GREENSBORO, NORTH CAROLINA
SHIELD NUMBER 920278.204

March 16, 1993

For:

Adams Kleemeier Hagan Hannah and Fouts
Greensboro, North Carolina

By:

Shield Environmental Associates, Inc.
Carolina Business Center
2848 I-85 South, Suite H
Charlotte, NC 28208

Written By:

H. Burt Brown

H. Burt Brown
Project Manager

Reviewed By:

John M Brown

John M. Brown, P.G.
License Number 1013

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1.0	INTRODUCTION	1
2.0	FIELD ACTIVITIES	1
3.0	CONCLUSIONS	4
4.0	RECOMMENDATIONS	4
5.0	LIMITATIONS	4

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Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Stockpiled Soils

TABLES

Table 1: Laboratory Analytical Results for Pit Water Samples
Table 2: Laboratory Analytical Results for Soil Samples

APPENDICES

Appendix A: NCDEM Form GW/UST-3
Appendix B: Greensboro Fire Department Permit and City Privilege License
Appendix C: Transportation Manifest and Tank Disposal Certificate
Appendix D: NCDEM Form GW/UST-2
Appendix E: Laboratory Reports with Chain of Custody Documentation.

1.0 INTRODUCTION

1.1 Background

In December 1992, Shield Environmental Associates, Inc. (Shield) was retained by the law firm of Adams Kleemeier Hagan Hannah and Fouts to excavate and remove three petroleum underground storage tanks (USTs) from the Gate City Truck Repair facility located at 6301 Burnt Poplar Road, Greensboro, North Carolina (see Figure 1). Shield was also contracted to oversee disposal of the tanks and tank contents, conduct UST closure sampling and prepare a UST closure report. The following report addresses the UST closure activities, sampling, laboratory analytical results, and our conclusions and recommendations regarding the site.

1.2 UST Capacities, Contents, Locations and Ages

The three USTs removed consisted of a 10,000 gallon diesel fuel tank that measured 16.5 feet in length by 10 feet in diameter, a 500 gallon gasoline tank that measured 6.5 feet in length by 3 feet in diameter and a 500 gallon used oil tank that measured 6.5 feet in length by 3 feet in diameter. The diesel fuel and gasoline USTs were located adjacent to the pump island immediately west of the repair shop (see Figure 2). The used oil UST was located at the northwest corner of the repair shop. At the time of removal these USTs were approximately 17 years old.

1.3 Notification of Intent to Remove the USTs

Shield completed and filed a Notice of Intent for permanent UST closure with the Guilford County Department of Public Health, Division of Environmental Health on December 22, 1992. (see Appendix A, Form GW/UST-3)

Shield also contacted the Greensboro Fire Department on January 22, 1993 and notified them that the USTs would be removed on January 26, 1993. On January 25, 1993 Shield applied for and received a permit from the Greensboro Fire Department and a City Privilege License for the removal of the USTs (see Appendix B).

2.0 FIELD ACTIVITIES

2.1 UST Removal and Tank Disposal

On January 24, 1993, all remaining product from the USTs was pumped out by L & M Environmental Services, Inc. (L & M) of High Point, North Carolina. L & M informed Shield

that they had collected approximately 438 gallons of product from the used oil UST, 397 gallons of gasoline and water from the gasoline UST and 143 gallons of diesel fuel from the diesel UST. On January 25, 1993, Shield mobilized an environmental technician and an equipment operator to the Gate City Truck repair site. Upon arrival, the tops of the USTs were uncovered. The depths to the top of the USTs were all approximately 3 feet below the ground surface.

On January 26, 1993, Shield inerted the USTs with dry ice. The tanks were checked with an explosion meter and all readings were less than 4 percent of the lower explosion limit. The vent and fill ports were plugged on the USTs, and the USTs were excavated and removed. Groundwater was encountered at approximately 8 to 10 feet below grade in the diesel and gasoline tank excavation pits. Groundwater was not encountered in the used oil tank excavation pit. After removal, the USTs were transported by Safeway Tank Disposal, Inc. for proper disposal (see Appendix C for Transportation Manifest and Tank Disposal Certificate).

Gasoline and diesel odors were noted during the excavation and removal of the USTs. Soil discoloration was evident around the diesel tank. An organic vapor analyzer (OVA) was used to screen selected soil samples surrounding the USTs for volatile organic compounds (VOCs). Soils were collected from the trackhoe bucket, and glass jars were filled halfway with the soils. The jars were then covered with aluminum foil, which allowed any organic vapors to volatilize in the headspace. Headspace OVA readings ranged from 500 to 3,700 parts per million (ppm) VOCs around the gasoline UST, from 200 to 1,200 ppm VOCs around the diesel UST and from 4 to 11 ppm VOCs around the used oil UST.

Shield personnel inspected the USTs and noted an approximately 1 inch diameter hole in the bottom of the diesel UST beneath the fill pipe. There were several small (0.625-inch) holes and heavy pitting in the gasoline UST. The used oil UST was in good condition with only slight pitting and no visible holes. The final dimensions of the diesel tank excavation pit measured 20 feet wide by 25.5 feet long by 10 feet deep. The final dimensions of the gasoline tank excavation pit measured 10.5 feet wide by 14 feet long by 8 feet deep. The final dimensions of the used oil tank excavation pit measured 10 feet wide by 15 feet long by 6 feet deep.

A site investigation report for permanent closure was submitted to NCDEM by Shield (see Appendix D for GW/UST-2 form).

2.2 UST Closure Sampling and Soil Stockpiling

Since groundwater infiltrated the diesel and gasoline UST pits, Shield personnel collected pit water samples instead of soil samples. One sidewall soil sample was also collected from these excavation pits to assess the petroleum hydrocarbon contamination approximately 1 foot above

groundwater. Two soil samples were collected from beneath the used oil UST at approximately 7 feet below the ground surface; one at each end of the UST.

All soil samples were collected from a trackhoe bucket, and the pit water samples were collected using disposable bailers. After collection, the samples were transferred to laboratory provided glassware labeled with sample number, date, time, analysis to be performed, and the sampler's name. The samples were then placed in a cooler filled with ice, chilled to approximately 4 degrees centigrade, and transported to the analytical laboratory using EPA approved chain-of-custody procedures.

At the laboratory, soil samples A1S and B1N were analyzed for total petroleum hydrocarbons (TPH) compounds by gas chromatograph (GC) according to SW-846 Extraction Methods 3550 and 5030. The two soil samples collected from beneath the used oil UST, C1N and C1S, were analyzed for oil and grease according to EPA Method 9071. The two pit water samples, PitW-1 and PitW-2, were both analyzed for purgeable halocarbon compounds according to EPA Method 601, purgeable aromatic compounds according to EPA Method 602 including total xylenes and MTBE, and semivolatile organics by EPA Method 625AB (see Figure 2 for UST and sample locations).

Approximately 200 tons of soil that appeared to be affected by petroleum hydrocarbons were stockpiled immediately south of the fence line (see Figure 3). The soils were placed on and covered with polyethylene sheeting. Two composite samples, Comp-1 and Comp-2, were collected from the stockpiled soils according North Carolina Department of Environment, Health and Natural Resources (NCDEHNR) guidelines. The soil samples were collected using a decontaminated hand auger and were composited in the field. These soil samples were collected, labeled and transported to the analytical laboratory as previously described. These stockpiled soil samples were analyzed for TPH by GC according to SW-846 Extraction Methods 3550 and 5030. The excavation pits were subsequently backfilled using "clean" soil material.

2.3 Laboratory Analytical Results

Laboratory analysis of the pit water sample collected from the diesel tank, PitW-1, exhibited 50 μg/L naphthalene, 70 μg/L phenanthrene and 40 μg/L fluorene. Water sample PitW-2, collected from the gasoline tank pit exhibited 590 μg/L naphthalene, 120 μg/L 2,4-dinitrophenol, 150 μg/L 1,2-dichloroethane, 5,300 μg/L benzene, 21,000 μg/L toluene, 1,200 μg/L ethylbenzene and 9,600 μg/L total xylenes (see Table 1). Soil sample A1S collected from the diesel pit sidewall exhibited TPH concentrations as diesel fuel of 240 mg/kg. Soil sample B1N collected from the gasoline pit sidewall exhibited TPH as gasoline concentrations of 46 mg/kg. The analysis of the stockpiled soil composite samples indicated sample Comp-1 with a TPH as diesel

fuel concentration of 690 mg/kg and a TPH as gasoline concentration of 2,400 mg/kg. Comp-2 soil sample analysis indicated a TPH as gasoline concentration of 41 mg/kg. Analysis of the soil samples collected beneath the used oil UST indicated samples C1N and C1S had oil and grease concentrations of 180 and 190 mg/kg, respectively (see Table 2). Appendix E presents the laboratory documentation.

3.0 CONCLUSIONS

Shield has conducted and documented the UST closure activities related to the excavation and removal of the three USTs at the Gate City Truck Repair site. Based upon the field activities, OVA readings, and laboratory analytical results, we conclude the following:

- Laboratory analytical results from the two excavation pit wall soil samples, A1S and B1N, and the two stockpiled soil composite samples, Comp-1 and Comp-2, indicate the soils are affected by low and high boiling point TPH compounds. These TPH values exceed the North Carolina Soil Action Level of 10 ppm TPH.

- Laboratory analytical results for pit water sample PitW-2 collected from the gasoline UST pit exhibited elevated levels of benzene, toluene, ethylbenzene, xylenes, naphthalene, 1,2-dichloroethane and 2,4-dinitrophenol. Laboratory analytical results for pit water sample PitW-1 collected from the diesel UST pit exhibited elevated levels of fluorene, naphthalene and phenanthrene. The concentrations of these compounds all exceed the maximum allowable concentrations specified in NCAC T15A:02L.0202.

- The oil and grease concentrations in the closure samples C1N and C1S are below the North Carolina Soil Action Level of 250 ppm.

4.0 RECOMMENDATIONS

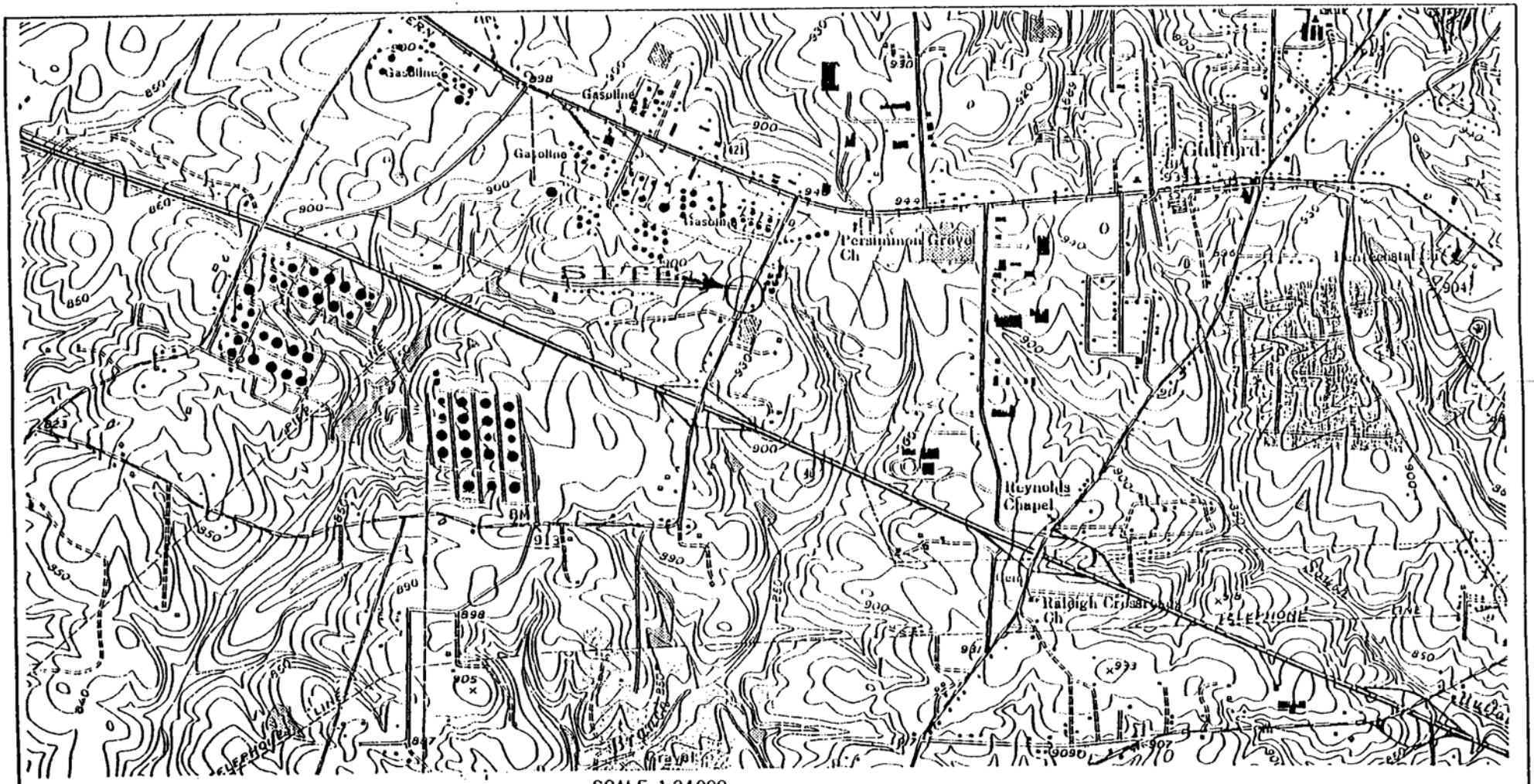
Based upon the laboratory analytical results from the pit water and soil samples, Shield recommends additional assessment to determine the vertical and horizontal extent of petroleum hydrocarbon contamination at the site. Shield also recommends proper disposal of the petroleum hydrocarbon contaminated soil stockpile.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of Adams Kleemeier Hagan Hannah and Fouts for specific application to the referenced site located in Guilford County, North Carolina.

The assessment was conducted based on the scope of work and level of effort desired by the client and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of North Carolina, available information, and our professional judgment. No effort has been made to misrepresent the conditions of the site. No other warranty is expressed or implied.

The data presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. Additionally, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from this data. Shield does not represent analytical data as being true and correct; that is the sole responsibility of the laboratory.



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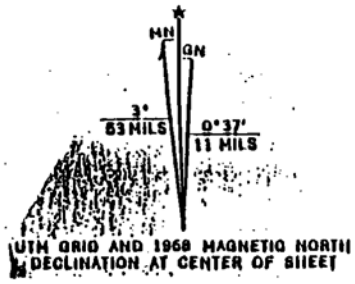
1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER



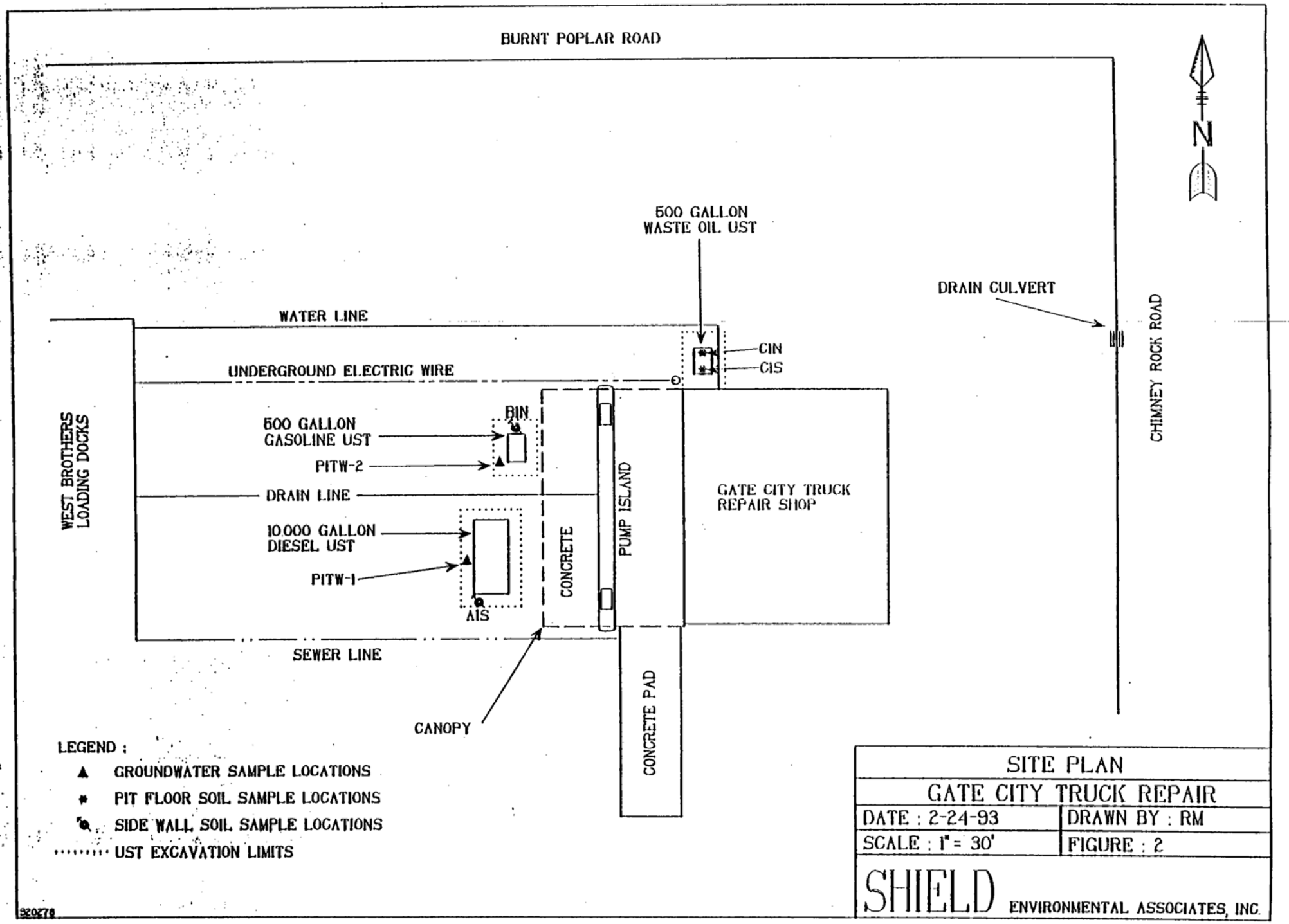
UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

GUILFORD, N. C.

SITE LOCATION MAP	
GATE CITY TRUCK REPAIR	
DATE : 03-11-93	DRAWN BY : RM
SCALE : AS SHOWN	FIGURE : 1

SHIELD ENVIRONMENTAL ASSOCIATES, INC.


BURNT POPLAR ROAD
N
500 GALLON
WASTE OIL UST
DRAIN CULVERT
CHIMNEY ROCK ROAD
WATER LINE
CIN
CIS
UNDERGROUND ELECTRIC WIRE
BIN
500 GALLON
GASOLINE UST
PITW-2
WEST BROTHERS
LOADING DOCKS
DRAIN LINE
PUMP ISLAND
GATE CITY TRUCK
REPAIR SHOP
10,000 GALLON
DIESEL UST
PITW-1
CONCRETE
AIS
SEWER LINE
CANOPY
CONCRETE PAD
LEGEND :
GROUNDWATER SAMPLE LOCATIONS
PIT FLOOR SOIL SAMPLE LOCATIONS
SIDE WALL SOIL SAMPLE LOCATIONS
UST EXCAVATION LIMITS
SITE PLAN
GATE CITY TRUCK REPAIR
DATE : 2-24-93
DRAWN BY : RM
SCALE : 1" = 30'
FIGURE : 2
SHIELD
ENVIRONMENTAL ASSOCIATES, INC.
920278

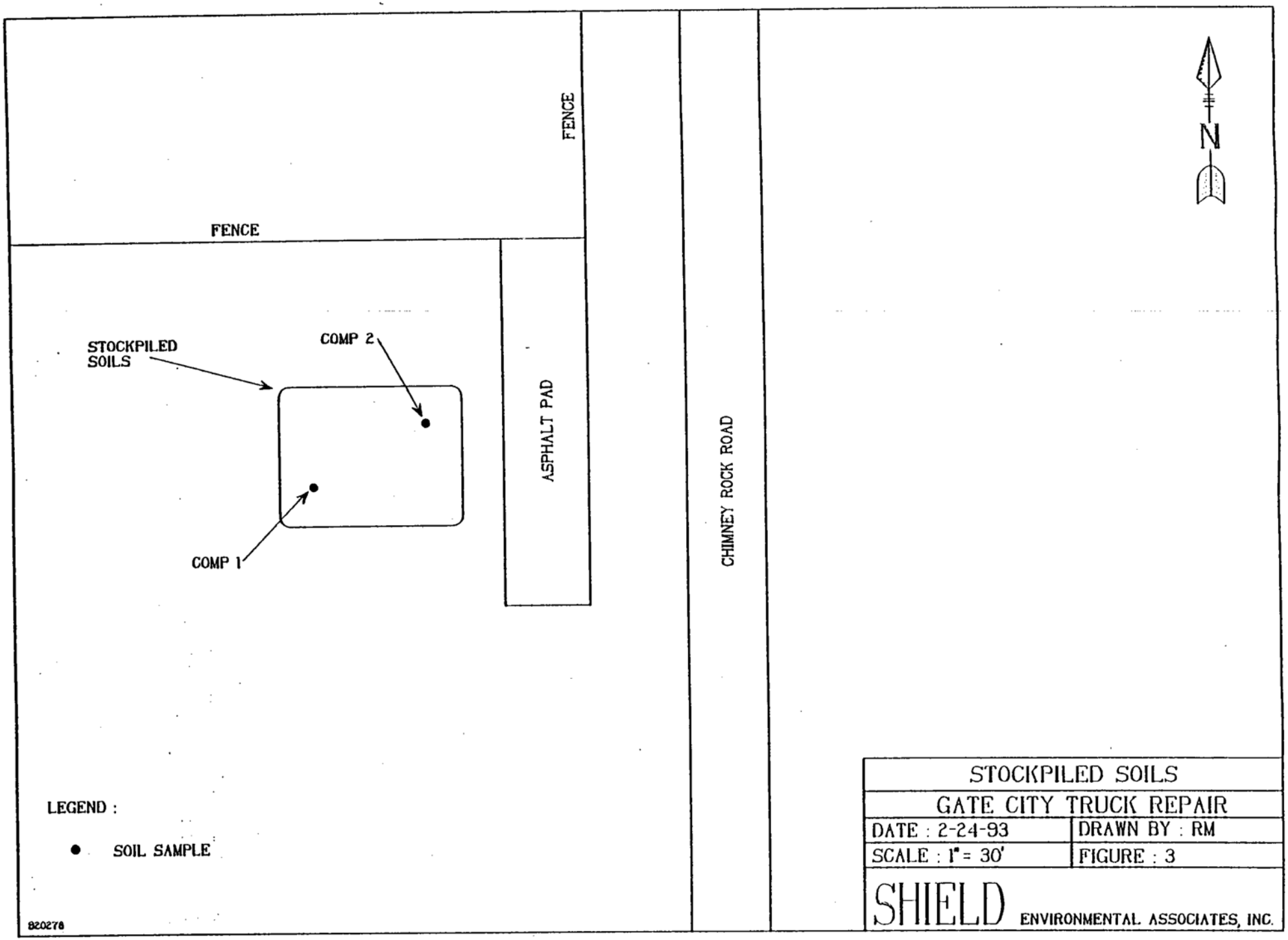

FENCE
FENCE
STOCKPILED SOILS
COMP 2
COMP 1
ASPHALT PAD
CHIMNEY ROCK ROAD
N
LEGEND :
SOIL SAMPLE
820278
STOCKPILED SOILS
GATE CITY TRUCK REPAIR
DATE : 2-24-93
DRAWN BY : RM
SCALE : 1" = 30'
FIGURE : 3
SHIELD ENVIRONMENTAL ASSOCIATES, INC.

Table 1 Tank Closure Assessment Report Laboratory Analytical Results for Pit Water Samples Greensboro, North Carolina Shield No. 920278		
Parameter	PITW-1 (µg/L)	PITW-2 (µg/L)
Naphthalene	50	590
Phenanthrene	70	ND
Fluorene	40	ND
2,4-Dinitrophenol	ND	120
Benzene	ND	5,300
1,2-Dichloroethane	ND	150
Toluene	ND	21,000
Ethylbenzene	ND	1,200
Xylene	ND	9,600

ND Not detected

Table 2 Tank Closure Assessment Report Laboratory Analytical Results for Soil Samples Greensboro, North Carolina Shield No. 920278				
Sample I.D.	Date Sampled	TPH By EPA Method 5030	TPH By EPA Method 3550	Oil and Grease By EPA Method 9071
A1S	1/27/93	ND	240	NA
B1N	1/27/93	46	ND	NA
C1N	1/27/93	NA	NA	180
C1S	1/27/93	NA	NA	190
Comp-1	1/27/93	2,400	690	NA
Comp-2	1/27/93	41	ND	NA

ND Not Detected
NA Not Analyzed
All results in mg/kg

ATTACHMENT 1

GW/UST-3) **Notice of Intent: UST Permanent Closure or Change-in-Service**

FOR TANKS IN NC

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

RECEIVED

INSTRUCTIONS

Complete and return thirty (30) days prior to closure or change-in-service.

I. OWNERSHIP OF TANK(S)	II. LOCATION OF TANK(S)
Tank Owner Name: Walter L. Hannah, Trustee (Corporation, Individual, Public Agency, or Other Entity)	Facility Name or Company: Ara / Smith's
Street Address: 301 North Elm Street	Facility ID # (if available): 0-010064
County: Guilford	Street Address or State Road: 6301 Burnt Poplar Rd.
City: Greensboro State: NC Zip Code: 27401	County: Guilford City: Greensboro Zip Code: 27409
Tele. No. (Area Code): 919-373-1600	Tele. No. (Area Code): 919-294-4402

III. CONTACT PERSON

Name: Tom Brawner Job Title: Attorney Telephone Number: 919 373-1600

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. If 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. Keep records for 3 years.

V. WORK TO BE PERFORMED BY:

(Contractor) Name: Shield Environmental Associates Inc.

Address: 2848 I-85 South Suite H State: N.C. Zip Code: 28208

Contact: Livian Lawrence Phone: 704-394-6913

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

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY: CLOSURE: Removal	CLOSURE: Abandonment In Place	CHANGE-IN-SERVICE: New Contents Stored
1	10,000	Diesel	✓		
2	500	Gasoline	✓		
3	500	Oil	✓		

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title: Livian Lawrence - Shield Environmental Consultant

*Scheduled Removal Date: 1/21/93

Signature: Livian M. Lawrence

Date Submitted: 12/22/92

*If scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date.

GW/UST-3 Rev. 7/20/91 White Copy - Regional Office Yellow Copy - Central Office Pink Copy - Owner

GUILFORD COUNTY

EMERGENCY SERVICES

December 28, 1992

Walter L. Hannah, Trustee
Ara/ Smith's
301 N. Elm St.
Greensboro, NC 27401

Dear Mr. Hannah:

This letter is to acknowledge your Notification of Tank Closure as received December 21, 1992 and filed as "Ara/Smith's". All future correspondence must contain the file name as well as address and county in the subject to ensure its receipt into our filing system.

The results of the required assessment (NCAC Title 15A Subchapter 2N Section .0803 and 40 CFR Part 280.72) should be submitted to this office no later than thirty (30) days after the tank is closed. If there is evidence of a release or suspected release, it must be reported within twenty-four (24) hours.

Also, please remember that to permanently close a tank, owners and operators must clean it by removing all liquids and accumulated sludges as required under 15A 2N .0802 and 40 CFR 280.71 and 280.72.

We will be conducting random site visits to ensure that underground storage tank closures are conducted as required in 15A 2N .0802 and .0803 and 40 CFR 280.71 and 280.72. Any violations documented may be submitted for enforcement action.

Enclosed is an attachment that is to be used for the information required for closure assessment. You may contact me at the letterhead address or (919) 373-7565 if you have any questions concerning these requirements.

Sincerely,

Kelly C. Gage
Toxic and Health Hazard Specialist

cc:WSRO
Shield Environmental Assoc., Inc.

1002 Meadowood Road • Greensboro, North Carolina 27409
Telephone: (919) 373-7565

GREENSBORO FIRE DEPARTMENT
FIRE PREVENTION BUREAU
1514 N. Church Street
Greensboro, N. C. 27405
373-2177

To: Chief of Fire Prevention Bureau, City of Greensboro, N. C.

Application is hereby made by the undersigned for a permit to

✓ Remove Underground Tank(s)

____ Abandon Underground Tank(s) in or on the premises know as:

GATE CITY TRUCK REPAIR 6301 BURNT POPULAR ROAD
(Business Name and Address)

1. Tank Contractor: SHIELD ENVIRONMENTAL ASSOCIATES, INC

   Contractor's Address: CAROLINA BUSINESS CENTER 2848 I-85 SOUTH, SUITE H CHARLOTTE, NC 28208

   Number, size and product type of tanks: 1- 10,000 DIESEL, 1-500 GASOLINE, 1- 500 OIL TANK

2. Permit shall be obtained for the removal or abandonment of underground tanks in place prior to beginning work.

3. Tank contractor shall be licensed as a General Contractor by City Tax Collections.

4. Removal and abandonment of underground tanks in place shall comply with all applicable codes and regulations including the Fire Code, Guilford County Health Regulations, N.F.P.A. 327, and A.P.I. Publication 1604.

5. Notify Fire Prevention at 373-2177 and Guilford County Emergency Services at 373-7565 prior to removal or abandonment in place. Removal or abandonment to be conducted Monday through Friday (no weekends or city holidays) between the hours of 8:00 a.m.-4:00 p.m.).

6. For tank removal or abandonment in place all liquids shall be removed from the tank(s) and properly disposed of in accordance with applicable laws.

7. Prior to removal or abandonment in place tanks shall be purged or rendered inert. Purging or inerting shall be conducted in accordance with applicable standards and regulations. For purging the vapors shall not exceed 20% of the lower flammable limit. For inerting the oxygen content shall be below 8%. Tank contractor shall have the proper operating meters, combustible gas indicator and/or oxygen meter at each job site.

   Note: Perchloroethylene will not be allowed as an inerting agent.

GREENSBORO FIRE DEPARTMENT

RECEIPT

Date 1-25-93 No. 502

Received from SHIELD ENVIRONMENTAL ASSOCIATES

Address CAROLINA BUSINESS CENTER 2848 I-85 SOUTH, SUITE H CHARLOTTE, NC 28208

Amount NINTY FIVE & 00/100 DOLLARS $ 95.00

For (Location) 6301 BURNT POPLAR ROAD
GATE CITY TRUCK REPAIR

Paid By	
Check	2022
Cash	

Acct. # 01-4003-001.829 By Capt M.C. Brown

White: Customer Pink: File Canary: Collection Goldenrod: Other

PS - Fire - 3 - 476

GREENSBORO

TELLER VALIDATION AREA

4036 26Jan93 Br1 M4 #1
Mon Jan 25, 1993 12:30 PM
0051 4 $50.00 0219150 PrivIlegeLic
E ITEMS: CHECK PB 50.00
Dep to City of GREENSBORO SNB 351527128

Collection Division
P.O. Box 3136
No. 1 Governmental Plaza
Room P-112
Greensboro, NC 27402-3136
Telephone: 373-2310

Fin - Coll - 158 - 3920 (Rev. 5/90)

WHEN PROPERLY VALIDATED THIS SERVES AS A RECEIPT FOR THE PAYMENT INDICATED ABOVE.

GREENSBORO FIRE DEPARTMENT

FIRE INSPECTION REPORT

01

FILE NUMBER	STREET NUMBER	DIR	STREET NAME	TYPE	BUILDING UNIT	GENERAL INSP. DATE
	6701		KURNT HOLIAR	RD		

LAST INSP. DATE	BC OCCUPANCY	NFPA OCCUPANCY	COMPLEX	CONST	SPRINKLERS	STAND PIPES	DETECTORS	ALARM SYS	SPEC SYS	YR. CONST.	STORIES	FIRE EXT.	L-LINE P.PREV.

LAST INSP. BY	SQ. FT. GROUND FLOOR	MAX. OCCUPANT LOAD	REQ EXITS	SPEC INSTR	DUE DATE	INSPECTION PERIOD	DISTRICT	

02

DATE	TIME	ACTY	DISTRICT	SHFT	INSPECTING OFFICER
01 26 92			10	D	C.J.T

03 NOTICE OF FIRE & SAFETY HAZARDS: You are hereby notified that an inspection of your premises has disclosed the following fire safety hazards and/or violations of the provisions of appropriate local or state codes.

CODE	TYPE	COUNT	DESCRIPTION	APPR.
			✓ Underground Tank	
			Removal - 3 Tanks	
			Contractor Shield Environmental	
			Associates - 1-10,000 gal Diesel,	
			1-500 gal gasoline, 1-500 gal	
			waste oil tank, all	
			tanks showed some signs	
			of contamination - LEL readings	
			less than 20% - Tanks taken	
			to Safeway Disposal	

ORDER TO COMPLY: As such conditions are contrary to law, you are hereby required to correct said conditions immediately upon receipt of this notice. An inspection to determine whether you have complied will be conducted on or before

REINSPECTION DATE

Failure to comply with the foregoing order before the date of such reinspection may render you liable to the penalties provided by law for such violation. FIRE PREVENTION BUREAU - PHONE 373-2177

FEES AND PENALTIES INCLUDE: REINSPECTION FEES, AND/OR CITATIONS, OR CRIMINAL SUMMONS.

X H. Burt Brown — OCCUPANT

X R. A. Allen — INSPECTING OFFICER

04

BUSINESS NAME	BUSINESS PHONE
Gate City Truck Repair	

OWNER/OCCUPANT	EMERGENCY PHONE

PS - FIRE
91-2356A

05 BUILDING UNIT IDENTIFICATION

REV 11-90

OCCUPANT'S COPY

Safeway Tank Disposal, Inc.

RECEIVING REPORT

From: Sheild FNU

Received by: CWBth
SAFEWAY TANK DISPOSAL, INC.

Transported by: L+M Trucking

Tank Disposal Number	Size	Weight	Product	Date Received	Origin
6802	10,000	7445	Diesel	1-26-93	Gate City Trucking
6803	550	450	GAS		Brent Poolar Rd Greens Bdge
6804	550	450	wasteoil		NC.

Safeway Tank Disposal, Inc. accepts the liability for the tank(s) and contents on this report. The tank(s) and contents must be a petroleum product. If at any time the tanks are found to contain any product other than a petroleum product SAFEWAY TANK DISPOSAL, INC. has the right to refuse disposal or negotiate a price for disposal. Customer will be liable for any clean-up or other cost resulting from contamination by a substance other than a petroleum product.

Safeway Tank Disposal, Inc. agrees to dispose of petroleum tanks and contents in accordance with local, state, and federal regulation. Certificate of Disposal to follow.

CWBth
SAFEWAY TANK DISPOSAL, INC.

Safeway Tank Disposal, Inc.

CERTIFICATE OF TANK DISPOSAL

Customer: Shield Environmental

Date: 3/5/93

Transported by: L. + M. Trucking

Tank Disposal Number	Size	Weight	Product	Residue Amount	Origin
6802	10,000gal	7445	Diesel fuel	85gal	Gate City Trucking
6803	550	450	Gas	10	Burn + Poplar Rd - Greensboro, NC.
6804	550	450	waste oil	70	↓ ↓

Total Residue: 165gal

Tanks were disposed in accordance with API 1604, 1987 Removal and Disposal of Used Underground Petroleum Storage Tanks. Residue was disposed in accordance with U.S. EPA Regulations by licensed subcontractor. Lead free scrap steel was recycled by United Metal Recyclers on 2/12 + 18/93.

Sharon W. Boyd

SAFEWAY TANK DISPOSAL, INC.

(GW/UST-2) Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.

FOR TANKS IN **NC**

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

Walter L. Hannah, Trustee
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
301 North Elm Street
Street Address
Guilford
County
Greensboro, N.C. 27401
City State Zip Code
919 373-1600
Area Code Telephone Number

II. Location of Tank(s)

Ara/Smith's
Facility Name or Company
0-010064
Facility ID # (if available)
6301 Burnt Poplar Rd.
Street Address or State Road
Guilford Greensboro 27409
County City Zip Code
(919) 294 4403
Area Code Telephone Number

III. Contact Persons

Tom Brawner — Attorney — (919) 375-1600
Name — Job Title — Telephone No. (Area Code)
Closure Contractor (Name) Shield Environmental Assoc. Inc. (Address) 2848 I-85 South Suite H Charlotte (Telephone No. (Area Code)) (704) 394-6913
Lab (Name) PACE, Inc (Address) 980 Kinney Ave. Suite 100 Huntersville, N.C. (Telephone No. (Area Code)) (704) 875-9092

IV. U.S.T. Information / V. Excavation Conditions

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation Yes	Water in Excavation No	Free Product Yes	Free Product No	Notable Odor or Visible Soil Contamination Yes	Notable Odor or Visible Soil Contamination No
1	10,000	16.5'x10'	Diesel Fuel	✓			✓	✓	
2	500	6.5'x3'	Gasoline	✓			✓	✓	
3	500	6.5'x3'	Oil		✓		✓		✓

VI. Additional Information Required

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

VII. Check List

Check the activities completed.

- [x] Contact local fire marshall
- [x] Notify DEM Regional Office before abandonment
- [x] Drain & flush piping into tank
- [x] Remove all product and residuals from tank
- [x] Excavate down to tank
- [ ] Clean and inspect tank
- [x] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
- [x] Cap or plug all lines except the vent and fill lines.
- [x] Purge tank of all product & flammable vapors.
- [ ] Cut one or more large holes in the tanks.
- [x] Backfill the area.

Date Tank(s) Permanently closed: 1/26/93
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

- [x] Create vent hole
- [x] Label tank
- [ ] Dispose of tank in approved manner

Final tank destination: Safeway Tank Disposal, Inc.

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	Signature	Date Signed
H. Burt Brown Field Services Manager - Shield	H. Burt Brown	3/11/93

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

RECEIVED
FEB 15 1993
PETROLEUM TESTING SERVICES, INC.

February 12, 1993

Mr. Burt Brown
Shield Environmental Associates, Inc.
2848 I-85 South
Suite H
Charlotte, NC 28208

RE: PACE Project No. 630129.506
Client Reference: 920278.204 Gate City Truck Repair

Dear Mr. Brown:

Enclosed is the report of laboratory analyses for samples received January 29, 1993.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Jennifer J. Carriker

Jennifer J. Carriker
Project Manager

Enclosures

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

An Equal Opportunity Employer

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Shield Environmental Associates, Inc.
2848 I-85 South
Suite H
Charlotte, NC 28208

February 12, 1993
PACE Project Number: 630129506

Attn: Mr. Burt Brown

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180399		
Date Collected:			01/26/93		
Date Received:			01/29/93		
Client Sample ID:			PitW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS			(1)	601/602	
Chloromethane	ug/L	1.0	ND		02/05/93
Bromomethane	ug/L	1.0	ND		02/05/93
Dichlorodifluoromethane	ug/L	1.0	ND		02/05/93
Vinyl chloride	ug/L	1.0	ND		02/05/93
Chloroethane	ug/L	1.0	ND		02/05/93
Methylene chloride	ug/L	1.0	ND		02/05/93
Trichlorofluoromethane	ug/L	1.0	ND		02/05/93
1,1-Dichloroethylene	ug/L	1.0	ND		02/05/93
1,1-Dichloroethane	ug/L	1.0	ND		02/05/93
trans-1,2-Dichloroethylene	ug/L	1.0	ND		02/05/93
Chloroform	ug/L	0.5	ND		02/05/93
1,2-Dichloroethane	ug/L	1.0	ND		02/05/93
1,1,1-Trichloroethane	ug/L	1.0	ND		02/05/93
Carbon Tetrachloride	ug/L	1.0	ND		02/05/93
Bromodichlormethane	ug/L	0.5	ND		02/05/93
1,2-Dichloropropane	ug/L	1.0	ND		02/05/93
trans-1,3-Dichloropropene	ug/L	1.0	ND		02/05/93
1,1,2-Trichloroethylene	ug/L	1.0	ND		02/05/93
Dibromochloromethane	ug/L	0.5	ND		02/05/93
1,1,2-Trichloroethane	ug/L	1.0	ND		02/05/93
cis-1,3-Dichloropropene	ug/L	1.0	ND		02/05/93
2-Chloroethylvinyl Ether	ug/L	1.0	ND		02/05/93
Bromoform	ug/L	0.5	ND		02/05/93
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND		02/05/93
Tetrachloroethylene	ug/L	0.5	ND		02/05/93
Methyl tert-butyl ether	ug/L	1.0	ND		02/05/93
Benzene	ug/L	1.0	ND		02/05/93
Toluene	ug/L	1.0	ND		02/05/93

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

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pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 2

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180399		
Date Collected:			01/26/93		
Date Received:			01/29/93		
Client Sample ID:			PitW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS			(1)	601/602	
Chlorobenzene	ug/L	1.0	ND		02/05/93
Ethyl benzene	ug/L	1.0	ND		02/05/93
Xylenes	ug/L	1.0	ND		02/05/93
1,3-Dichlorobenzene	ug/L	1.0	ND		02/05/93
1,4-Dichlorobenzene	ug/L	1.0	ND		02/05/93
1,2-Dichlorobenzene	ug/L	1.0	ND		02/05/93
SEMIVOLATILE ORGANICS-625AB				625	
Date Analyzed	ug/L		021193		02/11/93
Date Extracted			020293		02/02/93
4-Chloro-3-methylphenol	ug/L	10	ND		02/11/93
2-Chlorophenol	ug/L	10	ND		02/11/93
2,4-Dichlorophenol	ug/L	10	ND		02/11/93
2,4-Dimethylphenol	ug/L	10	ND		02/11/93
2,4-Dinitrophenol	ug/L	10	ND		02/11/93
2-Methyl-4,6-dinitrophenol	ug/L	10	ND		02/11/93
2-Nitrophenol	ug/L	10	ND		02/11/93
4-Nitrophenol	ug/L	10	ND		02/11/93
Pentachlorophenol	ug/L	10	ND		02/11/93
Phenol	ug/L	10	ND		02/11/93
2,4,6-Trichlorophenol	ug/L	10	ND		02/11/93
Acenaphthene	ug/L	10	ND		02/11/93
Acenaphthylene	ug/L	10	ND		02/11/93
Anthracene	ug/L	10	ND		02/11/93
Benzo(a)anthracene	ug/L	10	ND		02/11/93
Benzo(a)pyrene	ug/L	10	ND		02/11/93
Benzo(b)fluoranthene	ug/L	10	ND		02/11/93
Benzo(k)fluoranthene	ug/L	10	ND		02/11/93
Benzo(g,h,i)perylene	ug/L	10	ND		02/11/93
Bis(2-chloroethoxy)methane	ug/L	10	ND		02/11/93
Bis(2-chloroethyl)ether	ug/L	10	ND		02/11/93
Bis(2-chloroisopropyl)ether	ug/L	10	ND		02/11/93
Bis(2-ethylhexyl)phthalate	ug/L	10	ND		02/11/93

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-8091

An Equal Opportunity Employer

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 3

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180399		
Date Collected:			01/26/93		
Date Received:			01/29/93		
Client Sample ID:			PitW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANICS-625AB				625	
4-Bromophenol phenyl ether	ug/L	10	ND		02/11/93
Benzyl butyl phthalate	ug/L	10	ND		02/11/93
2-Chloronaphthalene	ug/L	10	ND		02/11/93
4-Chlorophenyl phenyl ether	ug/L	10	ND		02/11/93
Chrysene	ug/L	10	ND		02/11/93
Dibenzo(a,h)anthracene	ug/L	10	ND		02/11/93
1,2-Dichlorobenzene	ug/L	10	ND		02/11/93
1,3-Dichlorobenzene	ug/L	10	ND		02/11/93
1,4-Dichlorobenzene	ug/L	10	ND		02/11/93
3,3-Dichlorobenzidine	ug/L	10	ND		02/11/93
Diethyl phthalate	ug/L	10	ND		02/11/93
Dimethyl phthalate	ug/L	10	ND		02/11/93
Di-n-butyl phthalate	ug/L	10	ND		02/11/93
2,4-Dinitrotoluene	ug/L	10	ND		02/11/93
2,6-Dinitrotoluene	ug/L	10	ND		02/11/93
Di-n-octylphthalate	ug/L	10	ND		02/11/93
Fluoranthene	ug/L	10	ND		02/11/93
Fluorene	ug/L	10	40		02/11/93
Hexachlorobenzene	ug/L	10	ND		02/11/93
Hexachlorobutadiene	ug/L	10	ND		02/11/93
Hexachloroethane	ug/L	10	ND		02/11/93
Indeno(1,2,3,-cd)pyrene	ug/L	10	ND		02/11/93
Isophorone	ug/L	10	ND		02/11/93
Naphthalene	ug/L	10	50		02/11/93
Nitrobenzene	ug/L	10	ND		02/11/93
N-Nitrosodi-n-propylamine	ug/L	10	ND		02/11/93
N-Nitrosodiphenylamine	ug/L	10	ND		02/11/93
Phenanthrene	ug/L	10	70		02/11/93
Pyrene	ug/L	10	ND		02/11/93
1,2,4-Trichlorobenzene	ug/L	10	ND		02/11/93
Hexachlorocyclopentadiene	ug/L	10	ND		02/11/93

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PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180399		
Date Collected:			01/26/93		
Date Received:			01/29/93		
Client Sample ID:			PitW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANICS-625AB				625	
N-Nitrosodi-n-methylamine	ug/L	10	ND		02/11/93

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PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180402		
Date Collected:			01/26/93		
Date Received:			01/29/93		
Client Sample ID:			PitW-2		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Chloromethane	ug/L	100	ND		02/05/93
Bromomethane	ug/L	100	ND		02/05/93
Dichlorodifluoromethane	ug/L	100	ND		02/05/93
Vinyl chloride	ug/L	100	ND		02/05/93
Chloroethane	ug/L	100	ND		02/05/93
Methylene chloride	ug/L	100	ND		02/05/93
Trichlorofluoromethane	ug/L	100	ND		02/05/93
1,1-Dichloroethylene	ug/L	100	ND		02/05/93
1,1-Dichloroethane	ug/L	100	ND		02/05/93
trans-1,2-Dichloroethylene	ug/L	100	ND		02/05/93
Chloroform	ug/L	50	ND		02/05/93
1,2-Dichloroethane	ug/L	100	150		02/05/93
1,1,1-Trichloroethane	ug/L	100	ND		02/05/93
Carbon Tetrachloride	ug/L	100	ND		02/05/93
Bromodichlormethane	ug/L	50	ND.		02/05/93
1,2-Dichloropropane	ug/L	100	ND		02/05/93
trans-1,3-Dichloropropene	ug/L	100	ND		02/05/93
1,1,2-Trichloroethylene	ug/L	100	ND		02/05/93
Dibromochloromethane	ug/L	50	ND		02/05/93
1,1,2-Trichloroethane	ug/L	100	ND		02/05/93
cis-1,3-Dichloropropene	ug/L	100	ND		02/05/93
2-Chloroethylvinyl Ether	ug/L	100	ND		02/05/93
Bromoform	ug/L	50	ND		02/05/93
1,1,2,2-Tetrachloroethane	ug/L	100	ND		02/05/93
Tetrachloroethylene	ug/L	50	ND		02/05/93
Methyl tert-butyl ether	ug/L	100	ND		02/05/93
Benzene	ug/L	100	5300		02/05/93
Toluene	ug/L	200	21000		02/05/93
Chlorobenzene	ug/L	100	ND		02/05/93
Ethyl benzene	ug/L	100	1200		02/05/93
Xylenes	ug/L	100	9600		02/05/93

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Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180402		
Date Collected:			01/26/93		
Date Received:			01/29/93		
Client Sample ID:			PitW-2		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
1,3-Dichlorobenzene	ug/L	100	ND		02/05/93
1,4-Dichlorobenzene	ug/L	100	ND		02/05/93
1,2-Dichlorobenzene	ug/L	100	ND		02/05/93
SEMIVOLATILE ORGANICS-625AB				625	
Date Analyzed	ug/L		021293		02/12/93
Date Extracted			020293		02/02/93
4-Chloro-3-methylphenol	ug/L	50	ND		02/12/93
2-Chlorophenol	ug/L	50	ND		02/12/93
2,4-Dichlorophenol	ug/L	50	ND		02/12/93
2,4-Dimethylphenol	ug/L	50	ND		02/12/93
2,4-Dinitrophenol	ug/L	50	120		02/12/93
2-Methyl-4,6-dinitrophenol	ug/L	50	ND		02/12/93
2-Nitrophenol	ug/L	50	ND		02/12/93
4-Nitrophenol	ug/L	50	ND		02/12/93
Pentachlorophenol	ug/L	50	ND		02/12/93
Phenol	ug/L	50	ND		02/12/93
2,4,6-Trichlorophenol	ug/L	50	ND		02/12/93
Acenaphthene	ug/L	50	ND		02/12/93
Acenaphthylene	ug/L	50	ND		02/12/93
Anthracene	ug/L	50	ND		02/12/93
Benzo(a)anthracene	ug/L	50	ND		02/12/93
Benzo(a)pyrene	ug/L	50	ND		02/12/93
Benzo(b)fluoranthene	ug/L	50	ND		02/12/93
Benzo(k)fluoranthene	ug/L	50	ND		02/12/93
Benzo(g,h,i)perylene	ug/L	50	ND		02/12/93
Bis(2-chloroethoxy)methane	ug/L	50	ND		02/12/93
Bis(2-chloroethyl)ether	ug/L	50	ND		02/12/93
Bis(2-chloroisopropyl)ether	ug/L	50	ND		02/12/93
Bis(2-ethylhexyl)phthalate	ug/L	50	ND		02/12/93
4-Bromophenol phenyl ether	ug/L	50	ND		02/12/93
Benzyl butyl phthalate	ug/L	50	ND		02/12/93

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PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180402		
Date Collected:			01/26/93		
Date Received:			01/29/93		
Client Sample ID:			PitW-2		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANICS-625AB				625	
2-Chloronaphthalene	ug/L	50	ND		02/12/93
4-Chlorophenyl phenyl ether	ug/L	50	ND		02/12/93
Chrysene	ug/L	50	ND		02/12/93
Dibenzo(a,h)anthracene	ug/L	50	ND		02/12/93
1,2-Dichlorobenzene	ug/L	50	ND		02/12/93
1,3-Dichlorobenzene	ug/L	50	ND		02/12/93
1,4-Dichlorobenzene	ug/L	50	ND		02/12/93
3,3-Dichlorobenzidine	ug/L	50	ND		02/12/93
Diethyl phthalate	ug/L	50	ND		02/12/93
Dimethyl phthalate	ug/L	50	ND		02/12/93
Di-n-butyl phthalate	ug/L	50	ND		02/12/93
2,4-Dinitrotoluene	ug/L	50	ND		02/12/93
2,6-Dinitrotoluene	ug/L	50	ND		02/12/93
Di-n-octylphthalate	ug/L	50	ND		02/12/93
Fluoranthene	ug/L	50	ND		02/12/93
Fluorene	ug/L	50	ND		02/12/93
Hexachlorobenzene	ug/L	50	ND		02/12/93
Hexachlorobutadiene	ug/L	50	ND		02/12/93
Hexachloroethane	ug/L	50	ND		02/12/93
Indeno(1,2,3,-cd)pyrene	ug/L	50	ND		02/12/93
Isophorone	ug/L	50	ND		02/12/93
Naphthalene	ug/L	50	590		02/12/93
Nitrobenzene	ug/L	50	ND		02/12/93
N-Nitrosodi-n-propylamine	ug/L	50	ND		02/12/93
N-Nitrosodiphenylamine	ug/L	50	ND		02/12/93
Phenanthrene	ug/L	50	ND		02/12/93
Pyrene	ug/L	50	ND		02/12/93
1,2,4-Trichlorobenzene	ug/L	50	ND		02/12/93
Hexachlorocyclopentadiene	ug/L	50	ND		02/12/93
N-Nitrosodi-n-methylamine	ug/L	50	ND		02/12/93

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PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180410		
Date Collected:			01/27/93		
Date Received:			01/29/93		
Client Sample ID:			A1S		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Diesel Extraction - Soil			02/05/93	3550	
Percent Solids	%	0.01	62		02/02/93
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	ND	5030/8015	02/04/93
Total Hydrocarbons via Method 3550	mg/kg	5.0	240 HP	3550/8015	02/09/93

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February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180429		
Date Collected:			01/27/93		
Date Received:			01/29/93		
Client Sample ID:			BIN		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Diesel Extraction - Soil			02/05/93	3550	
Percent Solids	%	0.01	63		02/02/93
Petroleum Hydrocarbons as Gasoline	mg/kg	12	46	5030/8015	02/03/93
Total Hydrocarbons via Method 3550	mg/kg	5.0	ND LB	3550/8015	02/09/93

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February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180437		
Date Collected:			01/27/93		
Date Received:			01/29/93		
Client Sample ID:			C1N		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Oils & Grease by Soxhlet Extraction	mg/kg	10	180	SW846-9071	02/09/93

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PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180445		
Date Collected:			01/27/93		
Date Received:			01/29/93		
Client Sample ID:			C1S		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Oils & Grease by Soxhlet Extraction	mg/kg	10	190	SW846-9071	02/09/93

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February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180453		
Date Collected:			01/27/93		
Date Received:			01/29/93		
Client Sample ID:			Comp-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Diesel Extraction - Soil			02/05/93	3550	
Percent Solids	%	0.01	69		02/02/93
Petroleum Hydrocarbons as Gasoline	mg/kg	120	2400	5030/8015	02/04/93
Total Hydrocarbons via Method 3550	mg/kg	5.0	690 HP	3550/8015	02/09/93

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February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PACE Sample Number:			92 0180461		
Date Collected:			01/27/93		
Date Received:			01/29/93		
Client Sample ID:			Comp-2		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Diesel Extraction - Soil			02/05/93	3550	
Percent Solids	%	0.01	68		02/02/93
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	41	5030/8015	02/04/93
Total Hydrocarbons via Method 3550	mg/kg	5.0	ND	3550/8015	02/09/93

Sample results are reported on a dry weight basis.

These data have been reviewed and are approved for release.

C. Cabaniss

Charles M. Cabaniss
Manager, Inorganic Chemistry

Margaret S. Harding

Margaret S. Harding
Manager, Organic Chemistry

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Client Reference: 920278.204 Gate City Truck Repair

HP	Hydrocarbons present do not match profile of laboratory standard.
LB	Low boiling point components are present in sample.
MDL	Method Detection Limit
ND	Not detected at or above the MDL.
(1)	Late eluting aromatic hydrocarbons.

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QUALITY CONTROL DATA

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

Oils & Grease by Soxhlet Extraction
Batch: 92 17361
Samples: 92 0180437, 92 0180445

SAMPLE DUPLICATE:

Parameter	Units	MDL	920180437 CIN	Duplicate of 92 0180437	RPD
Oils & Grease by Soxhlet Extraction	mg/kg	10	180	270	40%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Oils & Grease by Soxhlet Extraction	mg/kg	10	3300	106%

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QUALITY CONTROL DATA

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

Petroleum Hydrocarbons as Gasoline
Batch: 92 17265
Samples: 92 0180429

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	110	109%	91%	18%

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QUALITY CONTROL DATA

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

Petroleum Hydrocarbons as Gasoline
Batch: 92 17266
Samples: 92 0180410, 92 0180453, 92 0180461

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	110	109%	91%	18%

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QUALITY CONTROL DATA

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

Total Hydrocarbons via Method 3550
Batch: 92 17383
Samples: 92 0180410, 92 0180429, 92 0180453, 92 0180461

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Total Hydrocarbons via Method 3550	mg/kg	5.0	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920182502	Spike	Spike Recv	Spike Dupl Recv	RPD
Total Hydrocarbons via Method 3550	mg/kg	5.0	ND	411	66%	84%	24%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Total Hydrocarbons via Method 3550	mg/kg	5.0	733	9%

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QUALITY CONTROL DATA

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PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PURGEABLE HALOCARBONS AND AROMATICS
Batch: 92 17478
Samples: 92 0180399, 92 0180402

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Chloromethane	ug/L	1.0	ND
Bromomethane	ug/L	1.0	ND
Dichlorodifluoromethane	ug/L	1.0	ND
Vinyl chloride	ug/L	1.0	ND
Chloroethane	ug/L	1.0	ND
Methylene chloride	ug/L	1.0	ND
Trichlorofluoromethane	ug/L	1.0	ND
1,1-Dichloroethylene	ug/L	1.0	ND
1,1-Dichloroethane	ug/L	1.0	ND
trans-1,2-Dichloroethylene	ug/L	1.0	ND
Chloroform	ug/L	0.5	ND
1,2-Dichloroethane	ug/L	1.0	ND
1,1,1-Trichloroethane	ug/L	1.0	ND
Carbon Tetrachloride	ug/L	1.0	ND
Bromodichlormethane	ug/L	0.5	ND
1,2-Dichloropropane	ug/L	1.0	ND
trans-1,3-Dichloropropene	ug/L	1.0	ND
1,1,2-Trichloroethylene	ug/L	1.0	ND
Dibromochloromethane	ug/L	0.5	ND
1,1,2-Trichloroethane	ug/L	1.0	ND
cis-1,3-Dichloropropene	ug/L	1.0	ND
2-Chloroethylvinyl Ether	ug/L	1.0	ND
Bromoform	ug/L	0.5	ND
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND
Tetrachloroethylene	ug/L	0.5	ND
Methyl tert-butyl ether	ug/L	1.0	ND
Benzene	ug/L	1.0	ND
Toluene	ug/L	1.0	ND
Chlorobenzene	ug/L	1.0	ND
Ethyl benzene	ug/L	1.0	ND
Xylenes	ug/L	1.0	ND
1,3-Dichlorobenzene	ug/L	1.0	ND

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QUALITY CONTROL DATA

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PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

PURGEABLE HALOCARBONS AND AROMATICS
Batch: 92 17478
Samples: 92 0180399, 92 0180402

METHOD BLANK:

Parameter	Units	MDL	Method Blank
1,4-Dichlorobenzene	ug/L	1.0	ND
1,2-Dichlorobenzene	ug/L	1.0	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Chloroform	ug/L	0.5	20	120%
Bromodichlormethane	ug/L	0.5	20	100%
1,1,2-Trichloroethylene	ug/L	1.0	20	100%
Benzene	ug/L	1.0	20	115%
Chlorobenzene	ug/L	1.0	20	115%
Ethyl benzene	ug/L	1.0	20	115%
Xylenes	ug/L	1.0	20	115%
1,4-Dichlorobenzene	ug/L	1.0	21	100%
1,2-Dichlorobenzene	ug/L	1.0	21	114%

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FOOTNOTES
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Client Reference: 920278.204 Gate City Truck Repair

MDL	Method Detection Limit
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference

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QUALITY CONTROL DATA

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

625 - BASE-NEUTRAL/ACID EXTRACTABLES
Batch: 90 36434
Samples: 92 0180399, 92 0180402

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Acenaphthene	ug/L	10	ND
Acenaphthylene	ug/L	10	ND
Anthracene	ug/L	10	ND
Benzo(a)anthracene	ug/L	10	ND
Benzo(a)pyrene	ug/L	10	ND
Benzo(b)fluoranthene	ug/L	10	ND
Benzo(k)fluoranthene	ug/L	10	ND
Benzo(g,h,i)perylene	ug/L	10	ND
Bis(2-chloroethoxy)methane	ug/L	10	ND
Bis(2-chloroethyl)ether	ug/L	10	ND
Bis(2-chloroisopropyl)ether	ug/L	10	ND
Bis(2-ethyl hexyl)phthalate	ug/L	10	ND
4-Bromophenyl phenyl ether	ug/L	10	ND
Butyl benzyl phthalate	ug/L	10	ND
2-Chloronaphthalene	ug/L	10	ND
4-Chlorophenyl phenyl ether	ug/L	10	ND
Chrysene	ug/L	10	ND
Dibenzo(a,h)anthracene	ug/L	10	ND
1,2-Dichlorobenzene	ug/L	10	ND
1,3-Dichlorobenzene	ug/L	10	ND
1,4-Dichlorobenzene	ug/L	10	ND
3,3-Dichlorobenzidine	ug/L	10	ND
Diethyl phthalate	ug/L	10	ND
Dimethyl phthalate	ug/L	10	ND
Di-n-butyl phthalate	ug/L	10	ND
2,4-Dinitrotoluene	ug/L	10	ND
2,6-Dinitrotoluene	ug/L	10	ND
Di-n-octyl phthalate	ug/L	10	ND
Fluoranthene	ug/L	10	ND
Fluorene	ug/L	10	ND
Hexachlorobenzene	ug/L	10	ND
Hexachlorobutadiene	ug/L	10	ND

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

An Equal Opportunity Employer

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 23

QUALITY CONTROL DATA

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

625 - BASE-NEUTRAL/ACID EXTRACTABLES
Batch: 90 36434
Samples: 92 0180399, 92 0180402

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Hexachloroethane	ug/L	10	ND
Indeno(1,2,3-c,d)pyrene	ug/L	10	ND
Isophorone	ug/L	10	ND
Naphthalene	ug/L	10	ND
Nitrobenzene	ug/L	10	ND
N-Nitrosodimethylamine	ug/L	10	ND
N-Nitrosodi-n-propylamine	ug/L	10	ND
N-Nitrosodiphenylamine	ug/L	10	ND
Phenanthrene	ug/L	10	ND
Pyrene	ug/L	10	ND
1,2,4-Trichlorobenzene	ug/L	10	ND
Hexachlorocyclopentadiene	ug/L	10	ND
4-Chloro-3-methylphenol	ug/L	10	ND
2-Chlorophenol	ug/L	10	ND
2,4-Dichlorophenol	ug/L	10	ND
2,4-Dimethylphenol	ug/L	10	ND
2,4-Dinitrophenol	ug/L	10	ND
2-Methyl-4,6-Dinitrophenol	ug/L	10	ND
2-Nitrophenol	ug/L	10	ND
4-Nitrophenol	ug/L	10	ND
Pentachlorophenol	ug/L	10	ND
Phenol	ug/L	10	ND
2,4,6-Trichlorophenol	ug/L	10	ND
Phenol-d6 - Surrogate	%		26
2-Fluorophenol - Surrogate	%		38
Nitrobenzene-d5 - Surrogate	%		68
2-Fluorobiphenyl - Surrogate	%		64
2,4,6-Tribromophenol - Surrogate	%		80
Terphenyl-d14 - Surrogate	%		76

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pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 24

QUALITY CONTROL DATA

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

625 - BASE-NEUTRAL/ACID EXTRACTABLES
Batch: 90 36434
Samples: 92 0180399, 92 0180402

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Acenaphthene	ug/L	10	50	62%
1,4-Dichlorobenzene	ug/L	10	50	52%
2,4-Dinitrotoluene	ug/L	10	50	58%
N-Nitrosodi-n-propylamine	ug/L	10	50	58%
Pyrene	ug/L	10	50	64%
1,2,4-Trichlorobenzene	ug/L	10	50	54%
4-Chloro-3-methylphenol	ug/L	10	50	58%
2-Chlorophenol	ug/L	10	50	52%
4-Nitrophenol	ug/L	10	50	12%
Pentachlorophenol	ug/L	10	50	44%
Phenol	ug/L	10	50	32%

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

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pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

FOOTNOTES
for pages 22 through 24

February 12, 1993
PACE Project Number: 630129506

Client Reference: 920278.204 Gate City Truck Repair

ND Not detected at or above the PRL.
PRL PACE Reporting Limit

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

An Equal Opportunity Employer

PETROLEUM TESTING SERVICES, INC.

Charlotte Office
Carolina Business Center
2848 I-85 South, Suite H
Charlotte, NC 28208
704/394-6913
FAX 704/394-6968
1-800-395-5220

PTSI

CHAIN OF CUSTODY REPORT

Raleigh Office
P.O. Box 13505
Research Triangle Park, NC. 27709
919/941-9155
1-800-676-5220
FAX 919-941-9154

630/29.506

PROJ. No. PROJECT NAME/LOCATION: 920228.304 Gate City Truck Repair

SAMPLERS: (Signature): H. Burt Brown

Project Manager: P.O.# 41475

STA. NO.	DATE	TIME	COMP.	GRAB.	SOIL	H_2O	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	EPH60	EPA 602+Xylenes+MTBE	EPA 625	TPH by 6.6 3550	TPH by 6.6 5030	9071 Oil & Grease	REMARKS
PitW-1	1/26/93			X		X	G.Water from Diesel UST Pit	5	X	X	X				18039.9
PitW-2	1/26/93			X		X	" " " Gasoline " "	8	X	X	X				18040.2 Normal Turnaround
A1S	1/27/93			X	X		South end of Diesel Pit @ 8' from surface	2				X	X		18041.0
B1N	1/27/93			X	X		North end of Gasoline Pit @ 8' from surface	2				X	X		18042.9
C1N	"			X	X		North end of Used Oil UST @ 5' from surface	1						X	18043.7
C1S	"			X	X		South " " " " " "	1						X	18044.5
Comp-1	"		X		X		Composite from Stockpile	2				X	X		18045.3
Comp-2	"		X		X		" " "	2				X	X		18046.1

PITW-2 was collected in wrong container for 625. Client was notified and instructions to run anyway.

Relinquished by: (Sign.)	Date	Time	Received by: (Sign.)	Relinquished by: (Sign.)	Date	Time	Received by: (Sign.)
H. Burt Brown	1/28/93		1-29-93 all c work				
Relinquished by: (Sign.)	Date	Time	Received by: (Sign.)	Relinquished by: (Sign.)	Date	Time	Received by: (Sign.)

Relinquished by: (Sign.)	Date	Time	Received for Lab. by:	Date	Time	REMARKS:

State of North Carolina
Department of Environment, Health, and Natural Resources
Winston-Salem Regional Office

James B. Hunt, Jr., Governor

Jonathan B. Howes, Secretary

DIVISION OF ENVIRONMENTAL MANAGEMENT
GROUNDWATER SECTION

NOTICE OF VIOLATION OF N.C.A.C. TITLE 15A SUBCHAPTER 2L
CLASSIFICATIONS AND WATER QUALITY STANDARDS
APPLICABLE TO THE GROUNDWATERS OF NORTH CAROLINA

April 22, 1993

CERTIFIED MAIL NUMBER P 409 335 744
RETURN RECEIPT REQUESTED

ARA/Smith's
Attn: Walter L. Hannah, Trustee
P.O. Box 3463
Greensboro, NC 27402

Subject: 6301 Burnt Poplar Rd., Greensboro, Guilford County, NC

Dear Mr. Hannah:

Chapter 143, North Carolina General Statues, authorizes and directs the Environmental Management Commission of the Department of Environment, Health, and Natural Resources to protect and preserve the water and air resources of the State. The Division of Environmental Management has the delegated authority to enforce adopted pollution control rules and regulations.

The purpose of N.C.A.C. Title 15A Subchapter 2L is to maintain and preserve the quality of the groundwaters, prevent and abate pollution and contamination of the waters of the State, protect public health, and permit management of the groundwaters for their best usage by the citizens of North Carolina.

On March 25, 1993 this office received confirmation of NCAC 2L violations in the form of groundwater sample analysis. The following results exceed the 2L Standards:

8025 North Point Boulevard, Suite 100, Winston-Salem, NC 27106-3203 - Telephone 919-896-7007 - FAX 919-896-7005

An Equal Opportunity Affirmative Action Employer

Parameter	Concentration Present	2L Standard
Naphthalene	590 ppb	NA
Phenanthrene	70 ppb	NA
Fluorene	40 ppb	NA
2,4-Dinitrophenol	120 ppb	NA
Benzene	5300 ppb	1 ppb
1,2-Dichloroethane	150 ppb	0.38 ppb
Toluene	21,000 ppb	1000 ppb
Ethylbenzene	1200 ppb	29 ppb
Xylene	9600 ppb	400 ppb

NA = not allowed in limits above detection level

These contaminate concentrations exceed the maximum allowable concentrations for such substances as specified in N.C.A.C. Title 15A 2L .0202. Therefore, they are in violation of the water quality standards for the groundwaters of the State. Please reference the following excerpt from Subchapter 2L which specifies corrective action as follows:

N.C.A.C. Title 15A 2L .0106 Corrective Action

(a) The goal of actions taken to restore groundwater quality shall be restoration to the level of the standards, or as close thereto as is economically and technologically feasible.

(b) Any person conducting or controlling an activity which results in the discharge of a waste or hazardous substance or oil to the groundwaters of the state or in proximity thereto, shall take immediate action to terminate and control the discharge, mitigate any hazards resulting from exposure to the pollutants and notify the Department of the discharge.

(c) Any person conducting or controlling an activity which results in an increase in the concentration of a substance in excess of the groundwater standard:

(1) as the result of activities, other than agricultural operations, not permitted by the state, shall assess the cause, significance and extent of the violation; submit a plan for eliminating the source of contamination and for restoration of groundwater quality; and implement an approved plan in accordance with a schedule established by the Director. In establishing a schedule the Director shall consider any reasonable schedule proposed by the person submitting the plan.

It is our understanding that you and/or your firm are responsible for the aforementioned violations. Subsequently, you are considered as the party responsible for eliminating the source of contamination and restoring groundwater quality.

You are required to submit a comprehensive site assessment which describes the full vertical and horizontal extent of the contamination. An adequate report must be received by this office on or before 90 days after receipt of this notice. A corrective action plan (remedial action plan) should be submitted to this office within sixty (60) days after submitting a comprehensive site assessment.

It is requested that within fifteen (15) days, you submit a written response describing your plans to achieve compliance. Should you dispute our assessment of responsibility, please include documentation of your position in your response.

Failure to submit the report required or failure to expeditiously eliminate the contaminant source and restore groundwater quality in the affected area may result in the recommendation of enforcement action including: (1) the issuance of a special order against you under the authority of G.S. 143-215.2, (2) a request to the Attorney General to institute an action for injunctive relief, (3) a civil penalty of up to $10,000 per day in accordance with G.S. 143-215.6 and (4) referral of your site to the Federal Trust Fund Group. Please note that should the Federal Trust Fund take charge of your site, they will seek cost recovery, from responsible parties, for any and all expenses incurred.

Submittal of the above referenced report(s) does not relieve you of the responsibility for continued investigation and cleanup at this site.

Please do not hesitate to contact Waddell Watters or Sherri V. Knight between the hours of 9:00 and 10:00 a.m. or 1:30 and 2:30 p.m. regarding any questions you may have about this matter.

Sincerely,

Larry D. Coble

Larry D. Coble
Regional Supervisor

LDC/skc/ahl

Enclosure

cc: Incident Management Unit
Guilford County Emergency Services
Guilford County Emergency Management
WSRO Files

6/11/92

Comprehensive Site Assessment (CSA) Report Guidelines

CSA Goal:

To sufficiently characterize the extent of soil and groundwater contamination such that a corrective action plan can be developed

Trigger mechanisms for CSA requirement:

- substances exceeding the 15A NCAC 2L groundwater standards
- free product on the water table
- contaminated soil in contact with groundwater
- requested by Division of Environmental Management

Minimum elements of CSA report:

1. Table of Contents (please number all pages of text)
2. Site History and Source Characterization
   - history of property ownership and usage (e.g. UST owners and operators, operating practices at site, list of chemicals used at the facility, etc.)
   - summary of previous release information or known contamination including dates, sources, contaminants and quantities
   - summary of previous environmental investigations
   - release scenario and/or means of contaminant discovery
   - summary of initial assessments
   - summary of corrective actions to date
   - site map shown on segment of 7 1/2-minute topographic map or county highway map
   - base map showing location of all known and potential contaminant sources, property lines, relevant physical features (e.g. buildings, roads, structures, on-site wastewater treatment plants, etc.), scale, north arrow
   - base or site map showing potential off-site contaminant sources

- discussion of monitor well locations which includes pre-installation screening methods used, number of wells, and construction of wells in terms of the nature of the contaminants and the aquifer contaminated (i.e. floaters vs. sinkers, placement of the screened interval, contaminated groundwater in saprolite vs. bedrock, upgradient vs. downgradient wells, etc.)

- table showing static water level measurements referenced to a common datum for all monitor wells to include depth to static water level, relative elevations of points from which depth is measured, relative static water level, date of measurement, and reference to wells shown on base map

- water table contour map and flow lines superimposed on the base map which exhibit direction(s) of groundwater flow with static water level measurements used in the flow net construction printed next to the well locations

- table of analytical results of samples collected from water supply wells at risk of becoming contaminated or from the influent and effluent from point-of-entry filter systems including date(s) of sample collection, units of measure, and reference to supply well(s) shown on site or base map

- table of analytical results for all monitor wells including comparison to 15A NCAC 2L standards, date(s) collected, units of measure, and reference to monitor well shown on base map

- free product map superimposed on the base map showing the extent of free product, the thickness, and date measured

- isoconcentration map superimposed on the base map showing at a minimum the complete horizontal extent of the most widespread contaminant and the contaminant present at the most highly elevated levels (Note: Ring of wells with contaminant levels near or below the 2L groundwater standards must be installed and sampled to complete this map.)

GUIDELINES FOR TECHNICAL AND FIELD DATA NECESSARY FOR DEVELOPING CORRECTIVE ACTION PLAN

1. Introduction - including a statement of objectives and a definition of scope of the investigation.

   (a) Statement of goals and expected accomplishments of RAP (eg.source control and/or removal, reduction in contaminant concentrations, removal of "free product", contaminant or retardation of plume migration, reduction in areal/vertical extent of contamination, protection of nearby water supplies, etc); and

   (b) Proposal for establishing target clean-up concentrations based on underground water quality standards set forth in paragraph .0202 of 15 NCAC 2L and feasibility criteria established under paragraph .0103(e).

2. General Locus Map (eg: segment of 7 1/1 min. topographic map where available; otherwise, segment of county highway map) showing location of contamination site.

3. Discussion of Regional Hydrogeology to include:

   (a) Delineation of the occurrence of geological units or formations including lithologic character and structural features (from published literature, files and personal knowledge)

   (b) Reference to all relevant geological features such as faulting, fracturing, dip of bedding planes, etc.

   (c) Information pertaining to local groundwater usage including type of use (public, industrial, private domestic, irrigation, etc.) and identification of aquifer.

   (d) Identification of all water supply wells within 1500 feet of the source of contamination including location and construction details, if available.

4. Base Map(s)* upon which the following information is exhibited:

   (a) Location of source(s) of contamination,

   (b) Locations of all sampling points, logged borings, and observation/ monitoring wells,

   (c) Location of all points of potential exposure to contaminants (water supply wells, surface water bodies, underground utilities, etc.), and

(b) Analytical reports for all sampling activities including date of sample collection and references to sampling points shown on base map. (Detection limits must be compatible with USEPA methods 601, 602, and 625 as found in the Federal Register Vol.. 49, No. 209, 40 CFR Part 136, October 26, 1984).

(c) Description of sampling methods used - flushing time, extraction volume, etc.

(d) Well construction records for all wells utilized as sampling points showing total depth of wall, depth of screened or open hole interval, date of construction, etc. (may reference well construction records complied under item 6(c).

8. Delineation of the contaminate plume to include:

(a) The horizontal component of plume geometry superimposed on the base map.

(b) Isopleths estimating contaminant concentration levels in the horizontal plane superimposed on the base map.

(c) The vertical component of plume geometry superimposed on the aquifer crossections described in 5(b).

9. Design and Operation of The Remedial Action System (RAS)

(a) Construction details (including design sketches) and facility layout (superimposed on base map) of all components of the RAS including recovery wells, interceptor trenches, infiltration galleries, groundwater treatment units, discharge facilities, etc.;

(b) Operational characteristics and performance standards of all systar components (eg: information on recovery wells should include duration of pumping, anticipated yield, and expected radium of influence. Data on treatment units should include influent concentrations, expected effluent concentrations, and flow rates). Discussion should address such factors as effectiveness, reliability, maintenance, and safety; and

(c) Consideration of all permits and approval required for disposal of waste materials and/or discharge of effluents.

10. Follow-up Site Monitoring and Evaluation of the RAS

(a) Plan for periodic monitoring to detect changes in groundwater movement, plume geometry, and qualitative characteristics of the plume; and to assess site response to disposal of effluent.

(b) Plan for continuing re-evaluation of the effectiveness of the RAS in accomplishing objectives established under item 1.

11. References
All information which is not personnel knowledge or derived from compiled data must be appropriately referenced.

FRANK G. PERRY, SR.
President

J. R. HOLTON
Secretary/Treasurer

P.O. BOX 1027 SANFORD, NC 27330 (919) 774-4800 NC TOLL FREE 800-672-7559 FAX (919) 774-7557

JUL 27 199

Lee
BRICK AND TILE COMPANY

Lee Brick & Tile Company, Inc., operating under the State of North Carolina Air Permit #3464R10 and the Contaminated Soil Disposal Permit # WQ0002988, hereby acknowledges the acceptance of 253.060 tonage of soil contaminated with fuel hydrocarbons and will handle the disposal of this soil in the prescribed manner as set forth by the Division of Environmental Management of the Department of Environment, Health, and Natural Resources, State of North Carolina, Raleigh, North Carolina.

COMPANY: Shield Environmental Associates, Inc.
(Name)

Carolina Business Center 2848 I-85 South Suite-H
(Street Address)

Charlotte, N. C. 28208
(City, State & ZIP Code)

JOB LOCATION: Gate City Truck Repair
(Name)

6301 Burnt Poplar Road
(Street Address)

Greensboro, N. C. 27409-4711
(City, State & ZIP Code)

TRUCKING COMPANY: Long Brothers of Summerfield, Inc.
(Name)

1024 East Mountain Street
(Street Address)

Kernersville, N. C. 27284
(City, State & ZIP Code)

Date Received: July 22 & 23, 1993

LEE BRICK & TILE COMPANY, INC.

BY: Frank G. Perry Pres.

President
(Position with Lee Brick & Tile Co.)

LEE BRICK & TILE COMPANY, INC., APPRECIATES THE OPPORTUNITY TO SERVE YOU!!!!

BRICK for the finest Building LEE for the finest Brick

TRUCK LOG SUMMARY

SOIL RECLAIMING, INC.
associate of
LEE BRICK & TILE COMPANY, INC.
3704 Hawkins Avenue
Hwy 15-501
Sanford, NC 27330

Soil Reclaiming, Inc.
(919) 774-3077

Lee Brick & Tile Company
(919) 774-4800

Customer:
Shield Environmental Associates, Inc.
2848 I-85 South, Suite-H
Charlotte, N. C. 28208

Job Location:
Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711

Truck Handled By: Long Brothers of Summerfield, Inc. 1024 East Mountain Street
Kernersville, N. C. 27284

DATE	MANIFEST #	TRUCK NO.	GROSS	TARE	NET	TONS
7-22-93	8816	36	57200	23180	34020	17.010
7-22-93	8817	30	64120	23300	40820	20.410
7-22-93	8818	5	61720	23020	38700	19.350
7-22-93	8819	5	66540	22860	43680	21.840
7-22-93	8820	36	66380	23020	43360	21.680
7-22-93	8821	23	64920	23500	41420	20.710
7-22-93	8822	30	67900	23120	44780	22.390
7-22-93	8823	33	66600	23460	43140	21.570
7-22-93	8824	6	67400	23900	43500	21.750
7-22-93	8825	22	68600	24280	44320	22.160
7-23-93	7939	55-Hilco	78080	30900	47180	23.590
7-23-93	7940	55-Hilco	71920	30720	41200	20.600
TOTAL	12	12	801,380	295,260	506,120	253.060
					Cubic Yards	202.448

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

O. # 42139

Job # 920278

MANIFEST # 5516

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, ~~Suite-H~~
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: ZE-5785 N.C.

TRUCK #: 36

DRIVER'S SIGNATURE: x Charles Callier

DATE & TIME DISPATCHED: 7-22-93 8:00

DATE & TIME WEIGHED: 7-22-93 9:36

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 57200

TARE WEIGHT 23180

NET WGT. 34020

EQUIV. TONS 17.010

BY: Jim Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 — 9:49

☑ A.M. WEATHER ☐ P.M.

☑ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8917

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: ZE 5781 N.C.

TRUCK #: 30

DRIVER'S SIGNATURE: Danny King

DATE & TIME DISPATCHED: 7-22-93 8:00

DATE & TIME WEIGHED: 7-22-93 936

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 64120

TARE WEIGHT 23300

NET WGT. 40820

EQUIV. TONS 20.410

BY: [illegible]

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 - 950

☒ A.M. WEATHER ☐ P.M.

☒ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

.O. # 42139

ob # 920278

MANIFEST # 5818

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: ZE-5761 N.C.

TRUCK #: 5

DRIVER'S SIGNATURE: X Randy Young

DATE & TIME DISPATCHED: 7-22-93 8:00

DATE & TIME WEIGHED: 7-22-93 935

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 61720

TARE WEIGHT 23020

NET WGT. 38200

EQUIV. TONS 19,350

BY: Jim Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 949

☒ A.M. WEATHER ☐ P.M.
☒ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # S919

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: XZE-5761 N.C.

TRUCK #: 5

DRIVER'S SIGNATURE: X Randy Young

DATE & TIME DISPATCHED: 7-22-93 11:30

DATE & TIME WEIGHED: 7/22/93 1:28 pm

WEIGH MASTER SIG.: Letta McNeil

GROSS WEIGHT 66540

TARE WEIGHT 22860

NET WGT. 43680

EQUIV. TONS 21.840

BY: Jamie Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Letta McNeil

DATE & TIME RECEIVED: 7/22/93 1:28 PM

☒ A.M. WEATHER ☐ P.M.
☒ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 5520

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: X N.C.

TRUCK #: 36

DRIVER'S SIGNATURE: X

DATE & TIME DISPATCHED: 7-22-93 11:35

DATE & TIME WEIGHED: 7-22-93 1:28 pm

WEIGH MASTER SIG.: Stella McPeice

GROSS WEIGHT 66380

TARE WEIGHT 23020

NET WGT. 43360

EQUIV. TONS 21,680

BY: Janie Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Stella McPeice

DATE & TIME RECEIVED: 7/22/93 1:28 pm

☒ A.M. WEATHER ☐ P.M.
☒ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

.O. # 42139

ob # 920278

MANIFEST # 5321

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: 7E-5774 N.C.

TRUCK #: 23

DRIVER'S SIGNATURE: X Joe Flinchum

DATE & TIME DISPATCHED: 7-22-93 12:20

DATE & TIME WEIGHED: 7-22-93 2:21

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 64920

TARE WEIGHT 23500

NET WGT. 41420

EQUIV. TONS 20.710

BY: Jamie Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 - 240

☒ A.M. WEATHER ☐ P.M.
☒ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8022

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, ~~Suite-H~~
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: JE-5781 N.C.

TRUCK #: 30

DRIVER'S SIGNATURE: X [signature]

DATE & TIME DISPATCHED: 7-22-93 12:40

DATE & TIME WEIGHED: 7-22-93 - 221

WEIGH MASTER SIG.: 7-22-93 Kenneth Blackmon

GROSS WEIGHT 67900

TARE WEIGHT 23120

NET WGT. 44780

EQUIV. TONS 22390

BY: [signature]

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 - 239

☒ A.M. WEATHER ☐ P.M.

☐ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8823

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: LE-7202 N.C.

TRUCK #: 33

DRIVER'S SIGNATURE: X Peggy Roper

DATE & TIME DISPATCHED: 7-22-93 3:30

DATE & TIME WEIGHED: 7-22-93 5:09

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 66600

TARE WEIGHT 23460

NET WGT. 43140

EQUIV. TONS 21.570

BY: [illegible]

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 5:24

☐ A.M. WEATHER ☑ P.M.
☑ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

White - Billing
Yellow - Generator
Pink - Filing

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8821

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: LE-5762 N.C.

TRUCK #: 6

DRIVER'S SIGNATURE: [signature]

DATE & TIME DISPATCHED: 7-22-93 3:40

DATE & TIME WEIGHED: 7-22-93 510

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 67400

TARE WEIGHT 24,200 23,900

NET WGT. 43,500

EQUIV. TONS 21,750

BY: [signature]

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 525

☐ A.M. WEATHER ☑ P.M.
☑ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8525

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

GROSS WEIGHT 68600

TARE WEIGHT 24280

NET WGT. 44320

EQUIV. TONS 22.160

TRUCK TAG # & STATE: XZE 5773 N.C.

TRUCK #: 22

DRIVER'S SIGNATURE: [signature]

DATE & TIME DISPATCHED: 7-22-93 3:50

BY: [signature]

DATE & TIME WEIGHED: 7-23-93 750

BY:

WEIGH MASTER SIG.: Kenneth Blackburn

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackburn

DATE & TIME RECEIVED: 7-23-93 808

☑ A.M. WEATHER ☑ P.M.

☑ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
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SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

PO. # 42139

Job # 920278

MANIFEST # 7939

CONTRACTOR: Shield Environmental Associates Inc.
Carolina Business Center 2848 I-85 South Suite H Charlotte N.C. 28208
TELEPHONE: 704-394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Rd.
Greensboro, N.C. 27409-4711
TELEPHONE: 919-294-4402

TRANSPORTER: Long Brothers of Summerfield Inc.
1024 East Mt. ST
Kernersville, N.C. 27284
TELEPHONE: 919-993-5664

GROSS WEIGHT 78080

TRUCK TAG # & STATE: X LF-4993 N.C.

TARE WEIGHT 30900

TRUCK #: 55-HILGO

NET WGT. 47180

DRIVER'S SIGNATURE: X [signature]

EQUIV. TONS 23.590

DATE & TIME DISPATCHED: 7-23-93 7:25

BY: [signature]

DATE & TIME WEIGHED: 7-23-93 8:23

BY:

WEIGH MASTER SIG.: Kenneth Blackmon

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-23-93 8:49

☒ A.M. WEATHER ☐ P.M.

☐ Clear ☒ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

.O. # 42139

ob # 920278

MANIFEST # 7910

CONTRACTOR: Shield Environmental Associates Inc.
Carolina Business Center 2848 I-85 South Suite H Charlotte, N.C. 28208 TELEPHONE: 704-394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N.C. 27409-4710 TELEPHONE: 919-294-4402

TRANSPORTER: Long Brothers of Summerfield Inc.
1024 East Mt. St.
Kernersville, N.C. 27284 TELEPHONE: 919-993-5664

GROSS WEIGHT 71920

TRUCK TAG # & STATE: LF-4993 N.C.

TARE WEIGHT 30720

TRUCK #: SS-HILCO

NET WGT. 41200

DRIVER'S SIGNATURE: X [signature]

EQUIV. TONS 20,600

DATE & TIME DISPATCHED: 7-23-93 11:00

BY: [signature]

DATE & TIME WEIGHED: 7-23-93 1236

BY:

WEIGH MASTER SIG.: Kenneth Blackmon

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-23-93 1253

☒ A.M. WEATHER ☐ P.M.

☒ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
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SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 7940

CONTRACTOR: Shield Environmental Associates Inc.
Carolina Business Center 2848 I-85 South
Suite H Charlotte, N.C. 28208
TELEPHONE: 704-394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N.C. 27409-4710
TELEPHONE: 919-294-4402

TRANSPORTER: Long Brothers of Summerfield Inc.
1024 East Mt. St.
Kernersville, N.C. 27284
TELEPHONE: 919-993-5664

GROSS WEIGHT 71920

TRUCK TAG # & STATE: LF-4993 N.C.

TARE WEIGHT 30720

TRUCK #: SS-HILCO

NET WGT. 41200

DRIVER'S SIGNATURE: X [signature]

EQUIV. TONS 20.600

DATE & TIME DISPATCHED: 7-23-93 11:00

BY: [signature]

DATE & TIME WEIGHED: 7-23-93 1236

BY:

WEIGH MASTER SIG.: Kenneth Blackmon

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-23-93 1253

☒ A.M. **WEATHER** ☐ P.M.

☒ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 55

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-23-93

Shipper Shield Environmental As.

Destination LEE BRICK

Carrier Long BROS
HILCO

55 ID. NO.
71920 LB GR
12:36 PM 07/23/93

55 ID. NO.
71920 LB GR RECALLED
30720 LB TR
41200 LB NT
12:53 PM 07/23/93

Commodity _____ @ _____ per lb.

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061

Kenneth Blackmon
INVALID UNLESS SIGNED

ING, INC.
of
TILE CO.,INC.
Hawkins Avenue
Hwy. 15-501
anford, N.C. 27330
phone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

42139

920278

MANIFEST # 7939

CONTRACTOR: Shield Environmental Associates Inc.
Carolina Business Center 2848 I-85 South Suite H Charlotte N.C. 28208 TELEPHONE: 704-394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Rd.
Greensboro, N.C. 27409-4711 TELEPHONE: 919-294-4402

TRANSPORTER: Long Brothers of Summerfield Inc.
1024 East Mt. ST
Kernersville, N.C. 27284 TELEPHONE: 919-993-5664

GROSS WEIGHT 78080

TRUCK TAG # & STATE: X LF-4993 N.C.

TARE WEIGHT 30900

TRUCK #: 55-HILGO

NET WGT. 47180

DRIVER'S SIGNATURE: X [signature]

EQUIV. TONS 23.590

DATE & TIME DISPATCHED: 7-23-93 7:25

BY: [signature]

DATE & TIME WEIGHED: 7-23-93 8:23

BY:

WEIGH MASTER SIG.: Kenneth Blackburn

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackburn

DATE & TIME RECEIVED: 7-23-93 — 8:49

☒ A.M. WEATHER ☐ P.M.

☐ Clear ☒ Overcast

☐ Rain ☐ Drizzle ☐ Snow

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

hite - Billing
llow - Generator
nk - Filing
old - Trucker

Number 55

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-23-93

Shipper Shield Environmental As.

Destination LEE Brick

Carrier Long Bros & HILCO

55 ID. NO.
78080 LB GR
08:23 AM 07/23/93

55 ID. NO.
78080 LB GR RECALLED
30900 LB TR
47180 LB NT
08:49 AM 07/23/93

Commodity _____ @ _____ per lb.

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061

Kenneth Blackmon
INVALID UNLESS SIGNED

RECLAIMING, INC.
Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 5525

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: XZE 5773 N.C.

TRUCK #: 22

DRIVER'S SIGNATURE: [signature]

DATE & TIME DISPATCHED: 7-22-93 3:50

DATE & TIME WEIGHED: 7-23-93 750

WEIGH MASTER SIG.: Kenneth Blackburn

GROSS WEIGHT 68600

TARE WEIGHT 24280

NET WGT. 44320

EQUIV. TONS 22.160

BY: [signature]

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackburn

DATE & TIME RECEIVED: 7-23-93 808

☑ A.M. WEATHER ☑ P.M.

☑ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 22.

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-23-93

Shipper Shield Environmental Associates

22 ID. NO.
68600 LB GR
07:50 AM 07/23/93

Destination LEE BRICK

Carrier Long Bros

22 ID. NO.
68600 LB GR RECALLED
24280 LB TR
44320 LB NT
08:08 AM 07/23/93

Commodity _____ @ _____ per lb.

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON, 3061
Kenneth Blackmon
INVALID UNLESS SIGNED

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

O. # 42139

Job # 920278

MANIFEST # 8824

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

ENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

RANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

RUCK TAG # & STATE: 1E-5762 N.C.

RUCK #: 6

DRIVER'S SIGNATURE: [signature]

ATE & TIME DISPATCHED: 7-22-93 3:40

ATE & TIME WEIGHED: 7-22-93 510

VEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 67400

TARE WEIGHT 24,200 23,900

NET WGT. 43,500

EQUIV. TONS 21,750

BY: [signature]

BY:

NSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 525

☐ A.M. WEATHER ☒ P.M.
☒ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

White - Billing
ellow - Generator
nk - Filing
old - Trucker

Number 06

WEIGHT RECORDED BY
SOIL RECLAIMING, INC.
P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-

Shipper Shield Environmental Associates

Destination LEE Brick

Carrier Long Bros

Commodity

06 ID. NO.
67400 LB GR
05:10 PM 07/22/93

06 ID. NO.
67400 LB GR RECALLED
23900 LB TR
43500 LB NT
05:25 PM 07/22/93

@ per

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061

INVALID UNLESS SIGNED

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8823

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, ~~Suite-H~~
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: LE-7202 N.C.

TRUCK #: 33

DRIVER'S SIGNATURE: X Peggy Roper

DATE & TIME DISPATCHED: 7-22-93 3:30

DATE & TIME WEIGHED: 7-22-93 5:09

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 66600

TARE WEIGHT 23460

NET WGT. 43140

EQUIV. TONS 21.570

BY: [illegible]

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 5:24

☐ A.M.	WEATHER	☑ P.M.
☑ Clear	☐ Overcast	
☐ Rain	☐ Drizzle	☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

33

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-93

Shipper Shield Environmental Associates

Destination LEE Brick

Carrier Long Bros

Commodity _____ @ _____ per lb.

33 ID. NO.
66600 LB GR
05:09 PM 07/22/93

33 ID. NO.
66600 LB GR RECALLED
23460 LB TR
43140 LB NT
05:24 PM 07/22/93

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061

INVALID UNLESS SIGNED

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8822

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, ~~Suite-H~~
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: JE-5781 N.C.

TRUCK #: 30

DRIVER'S SIGNATURE: X [signature]

DATE & TIME DISPATCHED: 7-22-93 12:40

DATE & TIME WEIGHED: 7-22-93 - 221

WEIGH MASTER SIG.: 7-22-93 Kenneth Blackmon

GROSS WEIGHT 67900

TARE WEIGHT 23120

NET WGT. 44780

EQUIV. TONS 22390

BY: [signature]

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 - 239

☒ A.M. WEATHER ☐ P.M.

☒ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 30

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-93

Shipper Shield Environmental As.

Destination LEE Brick

Carrier Long Bros

30 ID. NO.
67900 LB GR
02:21 PM 07/22/93

30 ID. NO.
67900 LB GR RECALLED
23120 LB TR
44780 LB NT
02:39 PM 07/22/93

Commodity _____ @ _____ per lb.

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061
Kenneth Blackmon
INVALID UNLESS SIGNED

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 5921

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: 7E-5774 N.C.

TRUCK #: 23

DRIVER'S SIGNATURE: X Joe Flinchum

DATE & TIME DISPATCHED: 7-22-93 12:20

DATE & TIME WEIGHED: 7-22-93 2:21

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 64920

TARE WEIGHT 23500

NET WGT. 41420

EQUIV. TONS 20.710

BY: Jamie Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 - 240

☑ A.M. WEATHER ☐ P.M.
☑ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 23

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-93

Shipper Shield Environmental Associates

Destination LEE BRICK

Carrier Long Bros

23 ID. NO.
64920 LB GR
02:21 PM 07/22/93

23 ID. NO.
64920 LB GR RECALLED
23500 LB TR
41420 LB NT
02:40 PM 07/22/93

Commodity _____ @ _____ per lb.

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061
Kenneth Blackmon
INVALID UNLESS SIGNED

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8820

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: X N.C.

TRUCK #: 36

DRIVER'S SIGNATURE: X

DATE & TIME DISPATCHED: 7-22-93 11:35

DATE & TIME WEIGHED: 7-22-93 1:28 pm

WEIGH MASTER SIG.: Stella McPrice

GROSS WEIGHT 66380

TARE WEIGHT 23020

NET WGT. 43360

EQUIV. TONS 21,680

BY: Janie Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Stella McPrice

DATE & TIME RECEIVED: 7/22/93 1:28 pm

☒ A.M. WEATHER ☐ P.M.
☒ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 36

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-93

Shipper Shield Environmental A.S.

Destination LEE Brick

Carrier Long Bros.

Commodity _____ @ _____ per lb.

36 ID. NO.
66380 LB GR
01:04 PM 07/22/93

36 ID. NO.
66380 LB GR RECALLED
23020 LB TR
43360 LB NT
01:28 PM 07/22/93

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061
Kenneth Blackmon
INVALID UNLESS SIGNED

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 5819

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: XZE-5761 N.C.

TRUCK #: 5

DRIVER'S SIGNATURE: X Randy Young

DATE & TIME DISPATCHED: 7-22-93 11:30

DATE & TIME WEIGHED: 7/22/93 1:28 pm

WEIGH MASTER SIG.: Lillian McNeil

GROSS WEIGHT 66540

TARE WEIGHT 22,860

NET WGT. 43,680

EQUIV. TONS 21.840

BY: Jamie Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Lillian McNeil

DATE & TIME RECEIVED: 7/22/93 1:28 PM

☑ A.M. WEATHER ☐ P.M.
☑ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 5

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-93

Shipper Shield Envirowmental AS.

Destination LEE BRICK

Carrier Long Bros

Commodity _____ @ _____ per lb.

05 ID. NO.
66540 LB GR
01:04 PM 07/22/93

05 ID. NO.
66540 LB GR RECALLED
22860 LB TR
43680 LB NT
01:28 PM 07/22/93

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061
Kenneth Blackmon
INVALID UNLESS SIGNED

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 5518

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: ZE-5761 N.C.

TRUCK #: 5

DRIVER'S SIGNATURE: X Randy Young

DATE & TIME DISPATCHED: 7-22-93 8:00

DATE & TIME WEIGHED: 7-22-93 935

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 61720

TARE WEIGHT 23020

NET WGT. 38200

EQUIV. TONS 19,350

BY: Jim Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 949

☒ A.M. WEATHER ☐ P.M.

☒ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 5

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-93

Shipper Shield Environmental A.S.

Destination LEE BRICK

Carrier Long Bros

05 ID. NO.
61720 LB GR
09:35 AM 07/22/93

05 ID. NO.
61720 LB GR RECALLED
23020 LB TR
38700 LB NT
09:49 AM 07/22/93

Commodity _____ @ _____ per lb

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061
Kenneth Blackmon
INVALID UNLESS SIGNED

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 8617

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, Suite-H
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: ZE 5781 N.C.

TRUCK #: 30

DRIVER'S SIGNATURE: Danny King

DATE & TIME DISPATCHED: 7-22-93 8:00

DATE & TIME WEIGHED: 7-22-93 936

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 64120

TARE WEIGHT 23300

NET WGT. 40820

EQUIV. TONS 20.410

BY: [illegible]

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 - 950

☒ A.M. WEATHER ☐ P.M.

☒ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 30

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-93

Shipper Shield Environmental A.S.

Destination LEE BRICK

Carrier Long Bros

30 ID. NO.
64120 LB GR
09:36 AM 07/22/93

30 ID. NO.
64120 LB GR RECALLED
23800 LB TR
40820 LB NT
09:50 AM 07/22/93

Commodity _____ @ _____ per lb.

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061
Kenneth Blackmon
INVALID UNLESS SIGNED

WEIGHT RECORDED BY 7-22-93 [redacted]

SOIL RECLAIMING, INC.

Associate of
LEE BRICK & TILE CO.,INC.
3704 Hawkins Avenue
Hwy. 15-501
Sanford, N.C. 27330
Telephone: (919) 774-4800

NON-HAZARDOUS WASTE MANIFEST

NON -HAZARDOUS PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM 783

☒ Gasoline ☐ Kerosene

☒ Diesel ☐ Jet Fuel ☐ Oil

P.O. # 42139

Job # 920278

MANIFEST # 5516

CONTRACTOR: Shield Environmental Associates, Inc.
Carolina Business Center 2848 I-85 South, ~~Suite-H~~
Charlotte, N. C. 28208
TELEPHONE: (704)394-6913

GENERATOR: Gate City Truck Repair
6301 Burnt Poplar Road
Greensboro, N. C. 27409-4711
TELEPHONE: (919)294-4402

TRANSPORTER: Long Brothers of Summerfield, Inc.
1024 East Mountain Street
Kernersville, N. C. 27284
TELEPHONE: (919)993-5664

TRUCK TAG # & STATE: ZE-5785 N.C.

TRUCK #: 36

DRIVER'S SIGNATURE: x Charles Callier

DATE & TIME DISPATCHED: 7-22-93 8:00

DATE & TIME WEIGHED: 7-22-93 9:36

WEIGH MASTER SIG.: Kenneth Blackmon

GROSS WEIGHT 57200

TARE WEIGHT 23180

NET WGT. 34020

EQUIV. TONS 17.010

BY: Jim Lockhart

BY:

INSPECTED & ACCEPTED BY: (LEE BRICK & TILE CO., INC.) Kenneth Blackmon

DATE & TIME RECEIVED: 7-22-93 - 9:49

☑ A.M. WEATHER ☐ P.M.

☑ Clear ☐ Overcast

☐ Rain ☐ Drizzle ☐ Snow

White - Billing
Yellow - Generator
Pink - Filing

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT ALL COPIES OF THIS FORM

Number 36

WEIGHT RECORDED BY

SOIL RECLAIMING, INC.

P.O. Box 1027 • Sanford, North Carolina
(919) 774-4800

Date 7-22-93

Shipper Shield Environmental Ms.

Destination LEE BRICK

Carrier Long Bros

96 TO. ND.
57200 LB GR
09:36 AM 07/22/93

96 TO. NL.
57200 LB GR RECALLED
23180 LB TR
34020 LB NT
09:49 AM 07/22/93

Commodity _____ @ _____ per lb.

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 1994
KENNETH BLACKMON 3061
Kenneth Blackmon
INVALID UNLESS SIGNED

920278

pace
INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

RECEIVED
SEP 14 1993
SHIELD ENVIRONMENTAL ASSOC.

September 13, 1993

Mr. Burt Brown
Shield Environmental Associates, Inc.
2848 I-85 South, Suite H
Charlotte, NC 28208

RE: PACE Project No. 630903.505
Client Reference: Gate City Truck Repair

Dear Mr. Brown:

Enclosed is the report of laboratory analyses for samples received September 03, 1993.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Jennifer J. Carriker

Jennifer J. Carriker
Project Manager

Enclosures

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Shield Environmental Associates, Inc.
2848 I-85 South, Suite H
Charlotte, NC 28208

September 13, 1993
PACE Project Number: 630903505

Attn: Mr. Burt Brown

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0088670		
Date Collected:			09/02/93		
Date Received:			09/03/93		
Client Sample ID:			MW-4-5'		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Diesel Extraction - Soil			090893	3550	09/08/93
Percent Solids	%	0.01	77		09/07/93
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	ND	5030/8015	09/09/93
Petroleum Hydrocarbons in Soil	mg/kg	5.0	ND	3550/8015	09/09/93

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

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pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 2

September 13, 1993
PACE Project Number: 630903505

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0088689		
Date Collected:			09/02/93		
Date Received:			09/03/93		
Client Sample ID:			MW-5-5'		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Diesel Extraction - Soil			090893	3550	09/08/93
Percent Solids	%	0.01	76		09/07/93
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	ND	5030/8015	09/09/93
Petroleum Hydrocarbons in Soil	mg/kg	5.0	ND	3550/8015	09/09/93

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-8092
FAX: 704-875-9091

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pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 3

September 13, 1993
PACE Project Number: 630903505

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0088697		
Date Collected:			09/02/93		
Date Received:			09/03/93		
Client Sample ID:			MW-6-5'		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Diesel Extraction - Soil			090893	3550	09/08/93
Percent Solids	%	0.01	68		09/07/93
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	ND	5030/8015	09/09/93
Petroleum Hydrocarbons in Soil	mg/kg	5.0	ND	3550/8015	09/09/93

Sample results are reported on a dry weight basis.

These data have been reviewed and are approved for release.

Margaret S. Harding

Margaret S. Harding
Manager, Organic Chemistry

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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FOOTNOTES
for pages 1 through 3

September 13, 1993
PACE Project Number: 630903505

Client Reference: Gate City Truck Repair

MDL Method Detection Limit
ND Not detected at or above the MDL.

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Mr. Burt Brown
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QUALITY CONTROL DATA

September 13, 1993
PACE Project Number: 630903505

Client Reference: Gate City Truck Repair

Petroleum Hydrocarbons as Gasoline
Batch: 92 22463
Samples: 92 0088670, 92 0088689, 92 0088697

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920088670 MW-4-5'	Spike	Spike Recv	Spike Dupl Recv	RPD
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	ND	100	90%	92%	2%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Petroleum Hydrocarbons as Gasoline	mg/kg	6.0	52	92%

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Mr. Burt Brown
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QUALITY CONTROL DATA

September 13, 1993
PACE Project Number: 630903505

Client Reference: Gate City Truck Repair

Petroleum Hydrocarbons in Soil
Batch: 92 22471
Samples: 92 0088670, 92 0088689, 92 0088697

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Petroleum Hydrocarbons in Soil	mg/kg	5.0	ND

SPIKE:

Parameter	Units	MDL	920088697 MW-6-5'	Spike	Spike Recv
Petroleum Hydrocarbons in Soil	mg/kg	5.0	ND	133	73%

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Mr. Burt Brown
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FOOTNOTES
for pages 5 through 6

September 13, 1993
PACE Project Number: 630903505

Client Reference: Gate City Truck Repair

MDL	Method Detection Limit
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference

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612067
630903.505

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

2848 I-85 SOUTH, SUITE H
CHARLOTTE, N.C. 28208
(704) 394-6913

PO# 42290

7605 SOUTH RAIL ROAD
CHARLESTON, S.C. 29420
803-824-6006

PROJECT NAME Gate City Truck Repair **CONTACT NAME** H. Bunt Brown **TELEPHONE NO.** 704-394-6913

Samplers: Print Name: H. Bunt Brown
Signature: H Bunt Brown
Project No: 920278

SAMPLE ID	SAMPLE LOCATION	Composite	Grab	Date	Time	Sample Type: Water	Liquid	Oil	Solid	No. of Containers	TPH 3550	TPH 5-30					REMARKS
MW-4-5'	North of MW-1		X	9-2-93	10:30				X	1	X	X				8867.0	
MW-5-5'	WEST of MW-2		X	9-2-93	12:00				X	1	X	X				8868.9	BTD. TURNAROUND!
MW 6-5'	WEST OF MW-3		X	9-2-93	12:05				X	1	X	X				8869.7	

COMMENTS: PO #

Relinquished by: (Signature) H. Bunt Brown
Relinquished by: (Signature)
Dispatched by: (Signature) Date 9-3-93 Time 12:42
Method of Shipment: Double Tire Road / LT Truck

Received by: (Signature)
Received by: (Signature)
Received for Laboratory by:

Date	Time
9-3-93	10:00 AM
Date	Time
9-3-93	12:50
Date	Time

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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

June 25, 1993

RECEIVED
JUN 28 1993
ENVIRONMENTAL ASSOC. INC.

Mr. Burt Brown
Shield Environmental Associates, Inc.
2848 I-85 South
Suite H
Charlotte, NC 28208

RE: PACE Project No. 630609.518
Client Reference: Gate City

Dear Mr. Brown:

Enclosed is the report of laboratory analyses for samples received June 09, 1993.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Jennifer J. Carriker

Jennifer J. Carriker
Project Manager

Enclosures

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REPORT OF LABORATORY ANALYSIS

Shield Environmental Associates, Inc.
2848 I-85 South
Suite H
Charlotte, NC 28208

June 25, 1993
PACE Project Number: 630609518

Attn: Mr. Burt Brown

Client Reference: Gate City

PACE Sample Number:			92 0045050		
Date Collected:			06/08/93		
Date Received:			06/09/93		
Client Sample ID:			CS-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PESTICIDES AND PCBS				8080	
Date Extracted			061193		06/11/93
Aldrin	ug/kg	0.3	ND		06/16/93
a-BHC	ug/kg	0.3	ND		06/16/93
b-BHC	ug/kg	0.3	ND		06/16/93
d-BHC	ug/kg	0.3	ND		06/16/93
Lindane	ug/kg	0.3	ND		06/16/93
Chlordane (tech)	ug/kg	0.7	ND		06/16/93
4,4-DDD	ug/kg	1.6	ND		06/16/93
4,4-DDT	ug/kg	1.6	ND		06/16/93
4,4-DDE	ug/kg	0.5	ND		06/16/93
Dieldrin	ug/kg	0.5	ND		06/16/93
Endosulfan I	ug/kg	0.5	ND		06/16/93
Endosulfan II	ug/kg	0.5	ND		06/16/93
Endosulfan sulfate	ug/kg	1.6	ND		06/16/93
Endrin	ug/kg	0.5	ND		06/16/93
Endrin aldehyde	ug/kg	1.6	ND		06/16/93
Heptachlor	ug/kg	0.3	ND		06/16/93
Heptachlor epoxide	ug/kg	0.3	ND		06/16/93
Methoxychlor	ug/kg	13.7	ND		06/16/93
Toxaphene	ug/kg	33	ND		06/16/93
PCB-1016	ug/kg	6.6	ND		06/16/93
PCB-1221	ug/kg	6.6	ND		06/16/93
PCB-1232	ug/kg	6.6	ND		06/16/93
PCB-1242	ug/kg	6.6	ND		06/16/93
PCB-1248	ug/kg	6.6	ND		06/16/93
PCB-1254	ug/kg	6.6	ND		06/16/93
PCB-1260	ug/kg	6.6	ND		06/16/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

PACE Sample Number:			92 0045050		
Date Collected:			06/08/93		
Date Received:			06/09/93		
Client Sample ID:			CS-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				8270	
Date Extracted 8270 Base/Neutrals	Date		061193		06/11/93
Acenaphthene	ug/kg	330	ND		06/22/93
Acenaphthylene	ug/kg	330	ND		06/22/93
Anthracene	ug/kg	330	ND		06/22/93
Benzidine	ug/kg	330	ND		06/22/93
Benzoic Acid	ug/kg	1650	ND		06/22/93
Benz(a)anthracene	ug/kg	330	ND		06/22/93
Benzo(b)fluoranthene	ug/kg	330	ND		06/22/93
Benzo(k)fluoranthene	ug/kg	330	ND		06/22/93
Benzo(g,h,i)pyrene	ug/kg	330	ND		06/22/93
Benzo(A)pyrene	ug/kg	330	ND		06/22/93
Benzyl alcohol	ug/kg	650	ND		06/22/93
Bis(2-chloroethoxy)methane	ug/kg	330	ND		06/22/93
Bis(2-chloroethyl) ether	ug/kg	330	ND		06/22/93
Bis(2-chloroisopropyl) ether	ug/kg	330	ND		06/22/93
Bis(2-ethylhexyl) phthalate	ug/kg	330	ND		06/22/93
4-Bromophenyl phenyl ether	ug/kg	330	ND		06/22/93
Butyl benzyl phthalate	ug/kg	330	ND		06/22/93
4-Chloroaniline	ug/kg	650	ND		06/22/93
2-Chloronaphthalene	ug/kg	330	ND		06/22/93
4-Chlorophenyl phenyl ether	ug/kg	330	ND		06/22/93
Chrysene	ug/kg	330	ND		06/22/93
Dibenz(a,h)anthracene	ug/kg	330	ND		06/22/93
Dibenzofuran	ug/kg	330	ND		06/22/93
Di-n-butyl phthalate	ug/kg	330	ND		06/22/93
1,2-Dichlorobenzene	ug/kg	330	ND		06/22/93
1,3-Dichlorobenzene	ug/kg	330	ND		06/22/93
1,4-Dichlorobenzene	ug/kg	330	ND		06/22/93
3,3-Dichlorobenzidine	ug/kg	330	ND		06/22/93
Diethyl phthalate	ug/kg	330	ND		06/22/93
Dimethyl phthalate	ug/kg	330	ND		06/22/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

PACE Sample Number:			92 0045050		
Date Collected:			06/08/93		
Date Received:			06/09/93		
Client Sample ID:			CS-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				8270	
2,4-Dinitrotoluene	ug/kg	330	ND		06/22/93
2,6-Dinitrotoluene	ug/kg	330	ND		06/22/93
1,2-Diphenylhydrazine	ug/kg	330	ND		06/22/93
Di-n-octyl phthalate	ug/kg	330	ND		06/22/93
Fluoranthene	ug/kg	330	ND		06/22/93
Fluorene	ug/kg	330	ND		06/22/93
Hexachlorobenzene	ug/kg	330	ND		06/22/93
Hexachlorobutadiene	ug/kg	330	ND		06/22/93
Hexachlorocyclopentadiene	ug/kg	330	ND		06/22/93
Hexachloroethane	ug/kg	330	ND		06/22/93
Indeno(1,2,3-cd)pyrene	ug/kg	330	ND		06/22/93
Isophorone	ug/kg	330	ND		06/22/93
2-Methylnaphthalene	ug/kg	330	ND		06/22/93
Naphthalene	ug/kg	330	ND		06/22/93
2-Nitroaniline	ug/kg	330	ND		06/22/93
3-Nitroaniline	ug/kg	330	ND		06/22/93
4-Nitroaniline	ug/kg	330	ND		06/22/93
Nitrobenzene	ug/kg	330	ND		06/22/93
N-Nitrosodimethylamine	ug/kg	330	ND		06/22/93
N-Nitrosodiphenylamine	ug/kg	330	ND		06/22/93
N-Nitrosodi-n-propylamine	ug/kg	330	ND		06/22/93
Phenanthrene	ug/kg	330	440		06/22/93
Pyrene	ug/kg	330	ND		06/22/93
1,2,4-Trichlorobenzene	ug/kg	330	ND		06/22/93
2-Fluorobiphenyl (surrogate)			100%		06/22/93
Terphenyl-d14 (surrogate)			85%		06/22/93
Nitrobenzene-d5 (surrogate)			110%		06/22/93
GCMS FOR VOLATILE ORGANICS-8240				8240	
Chloromethane	ug/kg	4.0	ND		06/22/93
Bromomethane	ug/kg	2.0	ND		06/22/93
Vinyl chloride	ug/kg	3.0	ND		06/22/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

PACE Sample Number:			92 0045050		
Date Collected:			06/08/93		
Date Received:			06/09/93		
Client Sample ID:			CS-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
GCMS FOR VOLATILE ORGANICS-8240				8240	
Chloroethane	ug/kg	1.0	ND		06/22/93
Methylene chloride	ug/kg	1.0	33		06/22/93
Acetone	ug/kg	15	18		06/22/93
Carbon Disulfide	ug/kg	2.0	ND		06/22/93
1,1-Dichloroethylene	ug/kg	2.0	ND		06/22/93
1,1-Dichloroethane	ug/kg	2.0	ND		06/22/93
Trans-1,2-dichloroethylene	ug/kg	4.0	ND		06/22/93
Chloroform	ug/kg	2.0	ND		06/22/93
1,2-Dichloroethane	ug/kg	2.0	ND		06/22/93
2-Butanone (MEK)	ug/kg	3.0	ND		06/22/93
1,1,1-Trichloroethane	ug/kg	3.0	ND		06/22/93
Carbon tetrachloride	ug/kg	2.0	ND		06/22/93
Vinyl acetate	ug/kg	10	ND		06/22/93
Bromodichloromethane	ug/kg	2.0	ND		06/22/93
1,1,2,2-Tetrachloroethane	ug/kg	2.0	ND		06/22/93
1,2-Dichloropropane	ug/kg	1.0	ND		06/22/93
Trans-1,3-dichloropropene	ug/kg	1.0	ND		06/22/93
Trichloroethylene	ug/kg	4.0	ND		06/22/93
Dibromochloromethane	ug/kg	1.0	ND		06/22/93
1,1,2-Trichloroethane	ug/kg	1.0	ND		06/22/93
Benzene	ug/kg	1.0	ND		06/22/93
Cis-1,3-Dichloropropene	ug/kg	2.0	ND		06/22/93
2-Chloroethylvinyl ether	ug/kg	10	ND		06/22/93
Bromoform	ug/kg	3.0	ND		06/22/93
2-Hexanone	ug/kg	2.0	ND		06/22/93
4-Methyl-2-pentanone (MIBK)	ug/kg	2.0	ND		06/22/93
Tetrachloroethylene	ug/kg	2.0	ND		06/22/93
Toluene	ug/kg	1.0	7.0		06/22/93
Chlorobenzene	ug/kg	3.0	ND		06/22/93
Ethyl benzene	ug/kg	2.0	150		06/22/93
Styrene	ug/kg	2.0	ND		06/22/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

PACE Sample Number:			92 0045050		
Date Collected:			06/08/93		
Date Received:			06/09/93		
Client Sample ID:			CS-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
GCMS FOR VOLATILE ORGANICS-8240				8240	
Xylenes, (total)	ug/kg	10	450		06/22/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

PACE Sample Number:			92 0045068		
Date Collected:			06/08/93		
Date Received:			06/09/93		
Client Sample ID:			CS-1		
Parameter	Units	MDL	(1)	METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
RCRA TOXICITY METALS (TCLP)				1311	
Arsenic	mg/L	0.005	ND		06/18/93
Barium	mg/L	0.010	1.41		06/17/93
Cadmium	mg/L	0.010	ND		06/17/93
Chromium	mg/L	0.010	ND		06/17/93
Lead	mg/L	0.10	ND		06/17/93
Mercury	mg/L	0.0002	ND		06/21/93
Selenium	mg/L	0.005	ND		06/14/93
Silver	mg/L	0.005	ND		06/17/93

These data have been reviewed and are approved for release.

Charles M. Cabaniss
Manager, Inorganic Chemistry

Margaret S. Harding
Manager, Organic Chemistry

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Mr. Burt Brown | FOOTNOTES | June 25, 1993
Page 7 | for pages 1 through 6 | PACE Project Number: 630609518

Client Reference: Gate City

MDL Method Detection Limit
ND Not detected at or above the MDL.
(1) All analysis performed on Toxic Characteristic Leachate.

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

Arsenic
Batch: 92 20431
Samples: 92 0045068

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Arsenic	mg/L	0.005	ND

SPIKE:

Parameter	Units	MDL	920041062	Spike	Spike Recv
Arsenic	mg/L	0.005	ND	0.020	100%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Arsenic	mg/L	0.005	0.043	102%

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

Mercury
Batch: 92 20471
Samples: 92 0045068

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Mercury	mg/L	0.0002	ND

SPIKE:

Parameter	Units	MDL	920043820	Spike	Spike Recv
Mercury	mg/L	0.0002	ND	0.005	98%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Mercury	mg/L	0.0002	0.0014	86%

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

Selenium
Batch: 92 20311
Samples: 92 0045068

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Selenium	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Selenium	mg/L	0.005	0.006	117%

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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

ICP QUALITY CONTROL
Batch: 92 20478
Samples: 92 0045068

METHOD BLANK:

Parameter	Units	MDL	Method Blank
INDIVIDUAL PARAMETERS			
Calcium	mg/L	0.10	ND
Magnesium	mg/L	0.10	ND
Potassium	mg/L	0.10	ND
Sodium	mg/L	0.10	ND
ICP QUALITY CONTROL			
Nickel	mg/L	0.010	ND
Cadmium	mg/L	0.010	ND
Vanadium	mg/L	0.010	ND
Lead	mg/L	0.10	ND
Barium	mg/L	0.010	ND
Copper	mg/L	0.010	ND
Chromium	mg/L	0.010	ND
Beryllium	mg/L	0.010	ND
Zinc	mg/L	0.010	ND
Cobalt	mg/L	0.010	ND
Iron	mg/L	0.010	ND
Silver	mg/L	0.005	ND
Manganese	mg/L	0.010	ND
Aluminum	mg/L	0.010	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
INDIVIDUAL PARAMETERS				
Calcium	mg/L	0.10	5.00	98%
Magnesium	mg/L	0.10	5.00	96%
Potassium	mg/L	0.10	5.00	96%
Sodium	mg/L	0.10	5.00	98%

ICP QUALITY CONTROL

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

ICP QUALITY CONTROL
Batch: 92 20478
Samples: 92 0045068

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Nickel	mg/L	0.010	0.500	90%
Cadmium	mg/L	0.010	0.500	92%
Vanadium	mg/L	0.010	0.500	94%
Lead	mg/L	0.10	0.500	92%
Barium	mg/L	0.010	0.500	94%
Copper	mg/L	0.010	0.500	94%
Chromium	mg/L	0.010	0.500	93%
Beryllium	mg/L	0.010	0.500	92%
Zinc	mg/L	0.010	0.500	94%
Cobalt	mg/L	0.010	0.500	93%
Iron	mg/L	0.010	0.500	93%
Silver	mg/L	0.005	0.024	104%
Manganese	mg/L	0.010	0.500	94%
Aluminum	mg/L	0.010	0.500	96%

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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS
Batch: 92 20541
Samples: 92 0045050

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Acenaphthene	ug/kg	330	ND
Acenaphthylene	ug/kg	330	ND
Anthracene	ug/kg	330	ND
Benzidine	ug/kg	330	ND
Benzoic Acid	ug/kg	1650	ND
Benz(a)anthracene	ug/kg	330	ND
Benzo(b)fluoranthene	ug/kg	330	ND
Benzo(k)fluoranthene	ug/kg	330	ND
Benzo(g,h,i)pyrene	ug/kg	330	ND
Benzo(A)pyrene	ug/kg	330	ND
Benzyl alcohol	ug/kg	650	ND
Bis(2-chloroethoxy)methane	ug/kg	330	ND
Bis(2-chloroethyl) ether	ug/kg	330	ND
Bis(2-chloroisopropyl) ether	ug/kg	330	ND
Bis(2-ethylhexyl) phthalate	ug/kg	330	ND
4-Bromophenyl phenyl ether	ug/kg	330	ND
Butyl benzyl phthalate	ug/kg	330	ND
4-Chloroaniline	ug/kg	650	ND
2-Chloronaphthalene	ug/kg	330	ND
4-Chlorophenyl phenyl ether	ug/kg	330	ND
Chrysene	ug/kg	330	ND
Dibenz(a,h)anthracene	ug/kg	330	ND
Dibenzofuran	ug/kg	330	ND
Di-n-butyl phthalate	ug/kg	330	ND
1,2-Dichlorobenzene	ug/kg	330	ND
1,3-Dichlorobenzene	ug/kg	330	ND
1,4-Dichlorobenzene	ug/kg	330	ND
3,3-Dichlorobenzidine	ug/kg	330	ND
Diethyl phthalate	ug/kg	330	ND
Dimethyl phthalate	ug/kg	330	ND
2,4-Dinitrotoluene	ug/kg	330	ND
2,6-Dinitrotoluene	ug/kg	330	ND

Mr. Burt Brown
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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS
Batch: 92 20541
Samples: 92 0045050

METHOD BLANK:

Parameter	Units	MDL	Method Blank
1,2-Diphenylhydrazine	ug/kg	330	ND
Di-n-octyl phthalate	ug/kg	330	ND
Fluoranthene	ug/kg	330	ND
Fluorene	ug/kg	330	ND
Hexachlorobenzene	ug/kg	330	ND
Hexachlorobutadiene	ug/kg	330	ND
Hexachlorocyclopentadiene	ug/kg	330	ND
Hexachloroethane	ug/kg	330	ND
Indeno(1,2,3-cd)pyrene	ug/kg	330	ND
Isophorone	ug/kg	330	ND
2-Methylnaphthalene	ug/kg	330	ND
Naphthalene	ug/kg	330	ND
2-Nitroaniline	ug/kg	330	ND
3-Nitroaniline	ug/kg	330	ND
4-Nitroaniline	ug/kg	330	ND
Nitrobenzene	ug/kg	330	ND
N-Nitrosodimethylamine	ug/kg	330	ND
N-Nitrosodiphenylamine	ug/kg	330	ND
N-Nitrosodi-n-propylamine	ug/kg	330	ND
Phenanthrene	ug/kg	330	ND
Pyrene	ug/kg	330	ND
1,2,4-Trichlorobenzene	ug/kg	330	ND
2-Fluorobiphenyl (surrogate)			71%
Terphenyl-d14 (surrogate)			84%
Nitrobenzene-d5 (surrogate)			67%

Mr. Burt Brown
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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS
Batch: 92 20541
Samples: 92 0045050

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920045050 CS-1	Spike	Spike Recv	Spike Dupl Recv	RPD
Acenaphthene	ug/kg	330	ND	1700	76%	88%	14%
1,4-Dichlorobenzene	ug/kg	330	ND	1700	59%	71%	18%
2,4-Dinitrotoluene	ug/kg	330	ND	1700	71%	71%	0%
N-Nitrosodi-n-propylamine	ug/kg	330	ND	1700	94%	106%	12%
Pyrene	ug/kg	330	ND	1700	71%	82%	14%
1,2,4-Trichlorobenzene	ug/kg	330	ND	1700	88%	100%	12%

Mr. Burt Brown
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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

PESTICIDES AND PCBS
Batch: 92 20457
Samples: 92 0045050

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Aldrin	ug/kg	0.3	ND
a-BHC	ug/kg	0.3	ND
b-BHC	ug/kg	0.3	ND
d-BHC	ug/kg	0.3	ND
Lindane	ug/kg	0.3	ND
Chlordane (tech)	ug/kg	0.7	ND
4,4-DDD	ug/kg	1.6	ND
4,4-DDT	ug/kg	1.6	ND
4,4-DDE	ug/kg	0.5	ND
Dieldrin	ug/kg	0.5	ND
Endosulfan I	ug/kg	0.5	ND
Endosulfan II	ug/kg	0.5	ND
Endosulfan sulfate	ug/kg	1.6	ND
Endrin	ug/kg	0.5	ND
Endrin aldehyde	ug/kg	1.6	ND
Heptachlor	ug/kg	0.3	ND
Heptachlor epoxide	ug/kg	0.3	ND
Methoxychlor	ug/kg	13.7	ND
Toxaphene	ug/kg	33	ND
PCB-1016	ug/kg	6.6	ND
PCB-1221	ug/kg	6.6	ND
PCB-1232	ug/kg	6.6	ND
PCB-1242	ug/kg	6.6	ND
PCB-1248	ug/kg	6.6	ND
PCB-1254	ug/kg	6.6	ND
PCB-1260	ug/kg	6.6	ND

Mr. Burt Brown
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QUALITY CONTROL DATA

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

PESTICIDES AND PCBS
Batch: 92 20457
Samples: 92 0045050

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Aldrin	ug/kg	0.3	20	102%
a-BHC	ug/kg	0.3	20	97%
b-BHC	ug/kg	0.3	20	95%
d-BHC	ug/kg	0.3	20	100%
Lindane	ug/kg	0.3	20	98%
4,4-DDD	ug/kg	1.6	120	103%
4,4-DDT	ug/kg	1.6	120	94%
4,4-DDE	ug/kg	0.5	40	101%
Dieldrin	ug/kg	0.5	40	101%
Endosulfan I	ug/kg	0.5	40	101%
Endosulfan II	ug/kg	0.5	40	106%
Endosulfan sulfate	ug/kg	1.6	120	112%
Endrin	ug/kg	0.5	40	100%
Endrin aldehyde	ug/kg	1.6	120	105%
Heptachlor	ug/kg	0.3	20	99%
Heptachlor epoxide	ug/kg	0.3	20	105%

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FOOTNOTES
for pages 8 through 17

June 25, 1993
PACE Project Number: 630609518

Client Reference: Gate City

MDL	Method Detection Limit
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference

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SHIELD ENVIRONMENTAL ASSOCIATES, INC.

6/2067
630609.518

2848 I-85 SOUTH, SUITE H
CHARLOTTE, N.C. 28208
(704) 394-6913

7605 SOUTH RAIL ROAD
CHARLESTON, S.C. 29420
803-824-6006

PROJECT NAME GATE CITY **CONTACT NAME** BURT BROWN **TELEPHONE NO.** (800) 395-5220

Samplers: Print Name: GREG RUDOLPH Signature:

Project No:

SAMPLE ID	SAMPLE LOCATION	Composite	Grab	Date	Time	Sample Type: Water	Liquid	Oil	Solid	No. of Containers	ANALYSIS: 8080 PCB's	8270 BNA	8240	TCLP Metals					REMARKS
CS-1	STOCKPILED SOILS	X		6/8/93	2600				X	4	X	X	X	X					4505.0 normal turnaround 4506.8

COMMENTS: Shield P.O.#42018

Relinquished by: (Signature)			Received by: (Signature)	Date 4 00	Time 6-9-93
Relinquished by: (Signature)			Received by: (Signature)	Date 4:35	Time 6-9-93
Dispatched by: (Signature)	Date	Time	Received for Laboratory by:	Date	Time
Method of Shipment:				Date	Time

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REPORT OF LABORATORY ANALYSIS

Shield Environmental Associates, Inc.
2848 I-85 South
Suite H
Charlotte, NC 28208

June 15, 1993
PACE Project Number: 630603515

Attn: Mr. Burt Brown

Client Reference: Gate City Truck Repair

PACE Sample Number: 92 0040996
Date Collected: 06/01/93
Date Received: 06/03/93
MW-1

Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead			$	239.2	/ /
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
1,2-Dibromoethane (EDB)	ug/L	0.02	3.4 CO	504	06/09/93
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Chloromethane	ug/L	5.0	ND		06/08/93
Bromomethane	ug/L	5.0	ND		06/08/93
Dichlorodifluoromethane	ug/L	5.0	ND		06/08/93
Vinyl chloride	ug/L	5.0	ND		06/08/93
Chloroethane	ug/L	5.0	ND		06/08/93
Methylene chloride	ug/L	5.0	ND		06/08/93
Trichlorofluoromethane	ug/L	5.0	ND		06/08/93
1,1-Dichloroethylene	ug/L	5.0	ND		06/08/93
1,1-Dichloroethane	ug/L	5.0	ND		06/08/93
trans-1,2-Dichloroethylene	ug/L	5.0	ND		06/08/93
Chloroform	ug/L	2.5	ND		06/08/93
1,2-Dichloroethane	ug/L	5.0	ND		06/08/93
1,1,1-Trichloroethane	ug/L	5.0	ND		06/08/93
Carbon tetrachloride	ug/L	5.0	ND		06/08/93
Bromodichlormethane	ug/L	2.5	ND		06/08/93
1,2-Dichloropropane	ug/L	5.0	ND		06/08/93
trans-1,3-Dichloropropene	ug/L	5.0	ND		06/08/93
1,1,2-Trichloroethylene	ug/L	5.0	ND		06/08/93
Dibromochloromethane	ug/L	2.5	ND		06/08/93
1,1,2-Trichloroethane	ug/l	5.0	ND		06/08/93
cis-1,3-Dichloropropene	ug/L	5.0	ND		06/08/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0040996		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-I		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
2-Chloroethylvinyl Ether	ug/L	5.0	ND		06/08/93
Bromoform	ug/L	2.5	ND		06/08/93
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		06/08/93
Tetrachloroethylene	ug/L	2.5	ND		06/08/93
Methyl tert-butyl ether	ug/L	5.0	50		06/08/93
Isopropyl ether	ug/L	5.0	74		06/08/93
Benzene	ug/L	5.0	250		06/08/93
Toluene	ug/L	5.0	47		06/08/93
Chlorobenzene	ug/L	5.0	ND		06/08/93
Ethyl benzene	ug/L	5.0	ND		06/08/93
Xylenes	ug/L	5.0	640		06/08/93
1,3-Dichlorobenzene	ug/L	5.0	ND		06/08/93
1,4-Dichlorobenzene	ug/L	5.0	ND		06/08/93
1,2-Dichlorobenzene	ug/L	5.0	ND		06/08/93
SEMIVOLATILE ORGANIC BY GC/MS				625	
625 Date Extracted	Date		060893		06/08/93
Acenaphthene	ug/L	10	ND		06/14/93
Acenaphthylene	ug/L	10	ND		06/14/93
Anthracene	ug/L	10	ND		06/14/93
Benzidine	ug/L	50	ND		06/14/93
Benz(a)anthracene	ug/L	10	ND		06/14/93
Benzo(b)fluoranthene	ug/L	10	ND		06/14/93
Benzo(k)fluoranthene	ug/L	10	ND		06/14/93
Benzo(A)pyrene	ug/L	10	ND		06/14/93
Benzo(g,h,i)perylne	ug/L	10	ND		06/14/93
Butyl benzyl phthalate	ug/L	10	ND		06/14/93
Bis(2-chloroethoxy)methane	ug/L	10	ND		06/14/93
Bis(2-chloroethyl) ether	ug/L	10	ND		06/14/93
Bis(2-chloroisopropyl) ether	ug/L	10	ND		06/14/93
Bis(2-ethylhexyl) phthalate	ug/L	10	ND		06/14/93
4-Bromophenyl phenyl ether	ug/L	10	ND		06/14/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0040996		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANIC BY GC/MS				625	
4-Chloro-3-methylphenol	ug/L	20	ND		06/14/93
2-Chloronaphthalene	ug/L	10	ND		06/14/93
2-Chlorophenol	ug/L	10	ND		06/14/93
4-Chlorophenyl phenyl ether	ug/L	10	ND		06/14/93
Chrysene	ug/L	10	ND		06/14/93
Dibenz(a,h)anthracene	ug/L	10	ND		06/14/93
Di-n-butyl phthalate	ug/l	10	ND		06/14/93
1,2-Dichlorobenzene	ug/L	10	ND		06/14/93
1,3-Dichlorobenzene	ug/L	10	ND		06/14/93
1,4-Dichlorobenzene	ug/L	10	ND		06/14/93
3,3-Dichlorobenzidine	ug/L	20	ND		06/14/93
2,4-Dichlorophenol	ug/L	50	ND		06/14/93
Diethyl phthalate	ug/L	10	ND		06/14/93
2,4-Dimethylphenol	ug/L	10	ND		06/14/93
Dimethyl phthalate	ug/L	10	ND		06/14/93
4,6-Dinitro-o-cresol	ug/L	50	ND		06/14/93
2,4-Dinitrophenol	ug/L	10	ND		06/14/93
2,4-Dinitrotoluene	ug/L	10	ND		06/14/93
2,6-Dinitrotoluene	ug/L	10	ND		06/14/93
Di-n-octyl phthalate	ug/L	10	ND		06/14/93
Fluoranthene	ug/L	10	ND		06/14/93
Fluorene	ug/L	10	ND		06/14/93
Hexachlorobenzene	ug/L	10	ND		06/14/93
Hexachlorobutadiene	ug/L	10	ND		06/14/93
Hexachlorocyclopentadiene	ug/L	10	ND		06/14/93
Hexachloroethane	ug/L	10	ND		06/14/93
Indeno(1,2,3-cd)pyrene	ug/L	10	ND		06/14/93
Isophorone	ug/L	10	ND		06/14/93
Naphthalene	ug/L	10	ND		06/14/93
Nitrobenzene	ug/L	10	ND		06/14/93
2-Nitrophenol	ug/L	50	ND		06/14/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0040996		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANIC BY GC/MS				625	
4-Nitrophenol	ug/L	50	ND		06/14/93
N-Nitrosodimethylamine	ug/L	10	ND		06/14/93
N-Nitrosodiphenylamine	ug/L	10	ND		06/14/93
N-Nitrosodi-n-propylamine	ug/L	10	ND		06/14/93
Pentachlorophenol	ug/L	50	ND		06/14/93
Phenanthrene	ug/L	10	ND		06/14/93
Phenol	ug/L	10	ND		06/14/93
Pyrene	ug/L	10	ND		06/14/93
1,2,4-Trichlorobenzene	ug/L	10	ND		06/14/93
2,4,6-Trichlorophenol	ug/L	10	ND		06/14/93
2-Fluorophenol (surrogate)			55%		06/14/93
2-Fluorobiphenyl (surrogate)			79%		06/14/93
Nitrobenzene-d5 (surrogate)			77%		06/14/93
Phenol-d6 (surrogate)			41%		06/14/93
Terphenyl-d14 (surrogate)			72%		06/14/93
2,4,6-Tribromophenol (surrogate)			100%		06/14/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0041003		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-2		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead			$	239.2	/ /
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
1,2-Dibromoethane (EDB)	ug/L	0.02	7.9 CO	504	06/09/93
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Chloromethane	ug/L	20	ND		06/08/93
Bromomethane	ug/L	20	ND		06/08/93
Dichlorodifluoromethane	ug/L	20	ND		06/08/93
Vinyl chloride	ug/L	20	ND		06/08/93
Chloroethane	ug/L	20	ND		06/08/93
Methylene chloride	ug/L	20	ND		06/08/93
Trichlorofluoromethane	ug/L	20	ND		06/08/93
1,1-Dichloroethylene	ug/L	20	ND		06/08/93
1,1-Dichloroethane	ug/L	20	ND		06/08/93
trans-1,2-Dichloroethylene	ug/L	20	ND		06/08/93
Chloroform	ug/L	10	ND		06/08/93
1,2-Dichloroethane	ug/L	20	ND		06/08/93
1,1,1-Trichloroethane	ug/L	20	ND		06/08/93
Carbon Tetrachloride	ug/L	20	ND		06/08/93
Bromodichlormethane	ug/L	10	ND		06/08/93
1,2-Dichloropropane	ug/L	20	ND		06/08/93
trans-1,3-Dichloropropene	ug/L	20	ND		06/08/93
1,1,2-Trichloroethylene	ug/L	20	ND		06/08/93
Dibromochloromethane	ug/L	10	ND		06/08/93
1,1,2-Trichloroethane	ug/L	20	ND		06/08/93
cis-1,3-Dichloropropene	ug/L	20	ND		06/08/93
2-Chloroethylvinyl Ether	ug/l	20	ND		06/08/93
Bromoform	ug/L	10	ND		06/08/93
1,1,2,2-Tetrachloroethane	ug/L	20	ND		06/08/93
Tetrachloroethylene	ug/L	10	ND		06/08/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0041003		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-2		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Methyl tert-butyl ether	ug/L	20	240		06/08/93
Isopropyl ether	ug/L	20	300		06/08/93
Benzene	ug/L	20	2200		06/08/93
Toluene	ug/L	20	36		06/08/93
Chlorobenzene	ug/L	20	ND		06/08/93
Ethyl benzene	ug/L	20	900		06/08/93
Xylenes	ug/L	20	1500		06/08/93
1,3-Dichlorobenzene	ug/L	20	ND		06/08/93
1,4-Dichlorobenzene	ug/L	20	ND		06/08/93
1,2-Dichlorobenzene	ug/L	20	ND		06/08/93
SEMIVOLATILE ORGANIC BY GC/MS				625	
625 Date Extracted	Date		060893		06/08/93
Acenaphthene	ug/L	10	ND		06/14/93
Acenaphthylene	ug/L	10	ND		06/14/93
Anthracene	ug/L	10	ND		06/14/93
Benzidine	ug/L	50	ND		06/14/93
Benz(a)anthracene	ug/L	10	ND		06/14/93
Benzo(b)fluoranthene	ug/L	10	ND		06/14/93
Benzo(k)fluoranthene	ug/L	10	ND		06/14/93
Benzo(A)pyrene	ug/L	10	ND		06/14/93
Benzo(g,h,i)perylne	ug/L	10	ND		06/14/93
Butyl benzyl phthalate	ug/L	10	ND		06/14/93
Bis(2-chloroethoxy)methane	ug/L	10	ND		06/14/93
Bis(2-chloroethyl) ether	ug/L	10	ND		06/14/93
Bis(2-chloroisopropyl) ether	ug/L	10	ND		06/14/93
Bis(2-ethylhexyl) phthalate	ug/L	10	ND		06/14/93
4-Bromophenyl phenyl ether	ug/L	10	ND		06/14/93
4-Chloro-3-methylphenol	ug/L	20	ND		06/14/93
2-Chloronaphthalene	ug/L	10	ND		06/14/93
2-Chlorophenol	ug/L	10	ND		06/14/93
4-Chlorophenyl phenyl ether	ug/L	10	ND		06/14/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 7

June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0041003		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-2		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANIC BY GC/MS				625	
Chrysene	ug/L	10	ND		06/14/93
Dibenz(a,h)anthracene	ug/L	10	ND		06/14/93
Di-n-butyl phthalate	ug/L	10	ND		06/14/93
1,2-Dichlorobenzene	ug/L	10	ND		06/14/93
1,3-Dichlorobenzene	ug/L	10	ND		06/14/93
1,4-Dichlorobenzene	ug/L	10	ND		06/14/93
3,3-Dichlorobenzidine	ug/L	20	ND		06/14/93
2,4-Dichlorophenol	ug/L	50	ND		06/14/93
Diethyl phthalate	ug/L	10	ND		06/14/93
2,4-Dimethylphenol	ug/L	10	ND		06/14/93
Dimethyl phthalate	ug/L	10	ND		06/14/93
4,6-Dinitro-o-cresol	ug/L	50	ND		06/14/93
2,4-Dinitrophenol	ug/L	10	ND		06/14/93
2,4-Dinitrotoluene	ug/L	10	ND		06/14/93
2,6-Dinitrotoluene	ug/l	10	ND		06/14/93
Di-n-octyl phthalate	ug/L	10	ND		06/14/93
Fluoranthene	ug/L	10	ND		06/14/93
Fluorene	ug/L	10	ND		06/14/93
Hexachlorobenzene	ug/L	10	ND		06/14/93
Hexachlorobutadiene	ug/L	10	ND		06/14/93
Hexachlorocyclopentadiene	ug/L	10	ND		06/14/93
Hexachloroethane	ug/L	10	ND		06/14/93
Indeno(1,2,3-cd)pyrene	ug/L	10	ND		06/14/93
Isophorone	ug/L	10	ND		06/14/93
Naphthalene	ug/L	10	ND		06/14/93
Nitrobenzene	ug/L	10	ND		06/14/93
2-Nitrophenol	ug/L	50	ND		06/14/93
4-Nitrophenol	ug/L	50	ND		06/14/93
N-Nitrosodimethylamine	ug/L	10	ND		06/14/93
N-Nitrosodiphenylamine	ug/L	10	ND		06/14/93
N-Nitrosodi-n-propylamine	ug/L	10	ND		06/14/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0041003		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-2		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANIC BY GC/MS				625	
Pentachlorophenol	ug/L	50	ND		06/14/93
Phenanthrene	ug/L	10	ND		06/14/93
Phenol	ug/L	10	12		06/14/93
Pyrene	ug/L	10	ND		06/14/93
1,2,4-Trichlorobenzene	ug/L	10	ND		06/14/93
2,4,6-Trichlorophenol	ug/L	10	ND		06/14/93
2-Fluorophenol (surrogate)			42%		06/14/93
2-Fluorobiphenyl (surrogate)			79%		06/14/93
Nitrobenzene-d5 (surrogate)			76%		06/14/93
Phenol-d6 (surrogate)			34%		06/14/93
Terphenyl-d14 (surrogate)			69%		06/14/93
2,4,6-Tribromophenol (surrogate)			66%		06/14/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0041011		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-3		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead			$	239.2	/ /
ORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
1,2-Dibromoethane (EDB)	ug/L	0.02	ND	504	06/09/93
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Chloromethane	ug/L	1.0	ND #		06/10/93
Bromomethane	ug/L	1.0	ND #		06/10/93
Dichlorodifluoromethane	ug/L	1.0	ND #		06/10/93
Vinyl chloride	ug/L	1.0	ND #		06/10/93
Chloroethane	ug/L	1.0	ND #		06/10/93
Methylene chloride	ug/L	1.0	ND #		06/10/93
Trichlorofluoromethane	ug/L	1.0	ND #		06/10/93
1,1-Dichloroethylene	ug/L	1.0	ND #		06/10/93
1,1-Dichloroethane	ug/L	1.0	ND #		06/10/93
trans-1,2-Dichloroethylene	ug/L	1.0	ND #		06/10/93
Chloroform	ug/L	0.5	ND #		06/10/93
1,2-Dichloroethane	ug/L	1.0	ND #		06/10/93
1,1,1-Trichloroethane	ug/L	1.0	ND #		06/10/93
Carbon Tetrachloride	ug/L	1.0	ND #		06/10/93
Bromodichlormethane	ug/L	0.5	ND #		06/10/93
1,2-Dichloropropane	ug/L	1.0	ND #		06/10/93
trans-1,3-Dichloropropene	ug/L	1.0	ND #		06/10/93
1,1,2-Trichloroethylene	ug/L	1.0	ND #		06/10/93
Dibromochloromethane	ug/L	0.5	ND #		06/10/93
1,1,2-Trichloroethane	ug/L	1.0	ND #		06/10/93
cis-1,3-Dichloropropene	ug/L	1.0	ND #		06/10/93
2-Chloroethylvinyl Ether	ug/L	1.0	ND #		06/10/93
Bromoform	ug/L	0.5	ND #		06/10/93
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND #		06/10/93
Tetrachloroethylene	ug/L	0.5	ND #		06/10/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 10

June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0041011		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-3		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Methyl tert-butyl ether	ug/L	1.0	ND #		06/10/93
Isopropyl ether	ug/L	1.0	ND #		06/10/93
Benzene	ug/L	1.0	1.0 #		06/10/93
Toluene	ug/L	1.0	ND #		06/10/93
Chlorobenzene	ug/L	1.0	ND #		06/10/93
Ethyl benzene	ug/L	1.0	ND #		06/10/93
Xylenes	ug/L	1.0	ND #		06/10/93
1,3-Dichlorobenzene	ug/L	1.0	ND #		06/10/93
1,4-Dichlorobenzene	ug/L	1.0	ND #		06/10/93
1,2-Dichlorobenzene	ug/L	1.0	ND #		06/10/93
SEMIVOLATILE ORGANIC BY GC/MS				625	
625 Date Extracted	Date		060893		06/08/93
Acenaphthene	ug/L	10	ND		06/14/93
Acenaphthylene	ug/L	10	ND		06/14/93
Anthracene	ug/L	10	ND		06/14/93
Benzidine	ug/L	50	ND		06/14/93
Benz(a)anthracene	ug/L	10	ND		06/14/93
Benzo(b)fluoranthene	ug/L	10	ND		06/14/93
Benzo(k)fluoranthene	ug/L	10	ND		06/14/93
Benzo(A)pyrene	ug/L	10	ND		06/14/93
Benzo(g,h,i)perylne	ug/L	10	ND		06/14/93
Butyl benzyl phthalate	ug/L	10	ND		06/14/93
Bis(2-chloroethoxy)methane	ug/L	10	ND		06/14/93
Bis(2-chloroethyl) ether	ug/L	10	ND		06/14/93
Bis(2-chloroisopropyl) ether	ug/L	10	ND		06/14/93
Bis(2-ethylhexyl) phthalate	ug/L	10	ND		06/14/93
4-Bromophenyl phenyl ether	ug/L	10	ND		06/14/93
4-Chloro-3-methylphenol	ug/L	20	ND		06/14/93
2-Chloronaphthalene	ug/L	10	ND		06/14/93
2-Chlorophenol	ug/L	10	ND		06/14/93
4-Chlorophenyl phenyl ether	ug/L	10	ND		06/14/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0041011		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-3		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANIC BY GC/MS				625	
Chrysene	ug/L	10	ND		06/14/93
Dibenz(a,h)anthracene	ug/l	10	ND		06/14/93
Di-n-butyl phthalate	ug/L	10	ND		06/14/93
1,2-Dichlorobenzene	ug/L	10	ND		06/14/93
1,3-Dichlorobenzene	ug/L	10	ND		06/14/93
1,4-Dichlorobenzene	ug/L	10	ND		06/14/93
3,3-Dichlorobenzidine	ug/L	20	ND		06/14/93
2,4-Dichlorophenol	ug/L	50	ND		06/14/93
Diethyl phthalate	ug/L	10	ND		06/14/93
2,4-Dimethylphenol	ug/L	10	ND		06/14/93
Dimethyl phthalate	ug/L	10	ND		06/14/93
4,6-Dinitro-o-cresol	ug/L	50	ND		06/14/93
2,4-Dinitrophenol	ug/L	10	ND		06/14/93
2,4-Dinitrotoluene	ug/L	10	ND		06/14/93
2,6-Dinitrotoluene	ug/L	10	ND		06/14/93
Di-n-octyl phthalate	ug/L	10	ND		06/14/93
Fluoranthene	ug/L	10	ND		06/14/93
Fluorene	ug/l	10	ND		06/14/93
Hexachlorobenzene	ug/L	10	ND		06/14/93
Hexachlorobutadiene	ug/L	10	ND		06/14/93
Hexachlorocyclopentadiene	ug/L	10	ND		06/14/93
Hexachloroethane	ug/L	10	ND		06/14/93
Indeno(1,2,3-cd)pyrene	ug/L	10	ND		06/14/93
Isophorone	ug/l	10	ND		06/14/93
Naphthalene	ug/L	10	ND		06/14/93
Nitrobenzene	ug/L	10	ND		06/14/93
2-Nitrophenol	ug/L	50	ND		06/14/93
4-Nitrophenol	ug/L	50	ND		06/14/93
N-Nitrosodimethylamine	ug/L	10	ND		06/14/93
N-Nitrosodiphenylamine	ug/L	10	ND		06/14/93
N-Nitrosodi-n-propylamine	ug/L	10	ND		06/14/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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June 15, 1993
PACE Project Number: 630603515

Client Reference: Gate City Truck Repair

PACE Sample Number:			92 0041011		
Date Collected:			06/01/93		
Date Received:			06/03/93		
Client Sample ID:			MW-3		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
SEMIVOLATILE ORGANIC BY GC/MS					
Pentachlorophenol	ug/L	50	ND	625	06/14/93
Phenanthrene	ug/L	10	ND		06/14/93
Phenol	ug/L	10	ND		06/14/93
Pyrene	ug/L	10	ND		06/14/93
1,2,4-Trichlorobenzene	ug/L	10	ND		06/14/93
2,4,6-Trichlorophenol	ug/L	10	ND		06/14/93
2-Fluorophenol (surrogate)			46%		06/14/93
2-Fluorobiphenyl (surrogate)			76%		06/14/93
Nitrobenzene-d5 (surrogate)			76%		06/14/93
Phenol-d6 (surrogate)			36%		06/14/93
Terphenyl-d14 (surrogate)			63%		06/14/93
2,4,6-Tribromophenol (surrogate)			94%		06/14/93

These data have been reviewed and are approved for release.

Charles M. Cabaniss
Manager, Inorganic Chemistry

Margaret S. Harding
Manager, Organic Chemistry

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SHIELD ENVIRONMENTAL ASSOCIATES, INC.

612067
630603.515

2848 I-85 SOUTH, SUITE H
CHARLOTTE, N.C. 28208
(704) 394-6913

7605 SOUTH RAIL ROAD
CHARLESTON, S.C. 29420
803-824-6006

PROJECT NAME Gate City Truck Repair **CONTACT NAME** Burt Brown **TELEPHONE NO.** (800) 395 5220

Samplers: Print Name: Mike LAWRENCE Signature: [signature]

Project No: 920278.204

SAMPLE ID	SAMPLE LOCATION	Composite	Grab	Date	Time	Sample Type: Water	Liquid	Oil	Solid	No. of Containers	ANALYSIS: 601	602+Xylenes	MTBE EDB LTE	625+10 largest peaks	3030C (Lead)				REMARKS
MW-1			X	6-1-93	3:30	✓				6	✓	✓	✓	✓	✓				4099.6
MW-2			X	6-1-93	3:45	✓				6	✓	✓	✓	✓	✓				4100.3
MW-3			X	6-1-93	4:00	✓				6	✓	✓	✓	✓	✓				4101.1

COMMENTS: Shield P.O. 41965

Relinquished by: (Signature)			Received by: (Signature)	Date	Time
[signature]			[signature]	6-3-93	4:00
Relinquished by: (Signature)			Received by: (Signature)	Date	Time
[signature]			[signature]	6-3-93	4:40
Dispatched by: (Signature)	Date	Time	Received for Laboratory by:	Date	Time
			[signature]	6-3-93	4:40
Method of Shipment:				Date	Time

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REPORT OF LABORATORY ANALYSIS

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SHIELD ENVIRONMENTAL ASSOC.

September 20, 1993

Mr. Burt Brown
Shield Environmental Associates, Inc.
2848 I-85 South, Suite H
Charlotte, NC 28208

RE: PACE Project No. 630909.503
Client Reference: Gate City

Dear Mr. Brown:

Enclosed is the report of laboratory analyses for samples received September 09, 1993.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Jennifer J. Carriker

Jennifer J. Carriker
Project Manager

Enclosures

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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Shield Environmental Associates, Inc.
2848 I-85 South, Suite H
Charlotte, NC 28208

September 20, 1993
PACE Project Number: 630909503

Attn: Mr. Burt Brown

Client Reference: Gate City

PACE Sample Number:			92 0090446		
Date Collected:			09/08/93		
Date Received:			09/09/93		
			MW-4		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/L	0.005	0.016	239.2	09/13/93
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Chloromethane	ug/L	1.0	ND		09/15/93
Bromomethane	ug/L	1.0	ND		09/15/93
Dichlorodifluoromethane	ug/L	1.0	ND		09/15/93
Vinyl chloride	ug/L	1.0	ND		09/15/93
Chloroethane	ug/L	1.0	ND		09/15/93
Methylene chloride	ug/L	1.0	ND		09/15/93
Trichlorofluoromethane	ug/L	1.0	ND		09/15/93
1,1-Dichloroethylene	ug/L	1.0	ND		09/15/93
1,1-Dichloroethane	ug/L	1.0	ND		09/15/93
trans-1,2-Dichloroethylene	ug/L	1.0	ND		09/15/93
Chloroform	ug/L	0.5	ND		09/15/93
1,2-Dichloroethane	ug/L	1.0	ND		09/15/93
1,1,1-Trichloroethane	ug/L	1.0	ND		09/15/93
Carbon Tetrachloride	ug/L	1.0	ND		09/15/93
Bromodichlormethane	ug/L	0.5	ND		09/15/93
1,2-Dichloropropane	ug/L	1.0	ND		09/15/93
trans-1,3-Dichloropropene	ug/L	1.0	ND		09/15/93
1,1,2-Trichloroethylene	ug/L	1.0	ND		09/15/93
Dibromochloromethane	ug/L	0.5	ND		09/15/93
1,1,2-Trichloroethane	ug/L	1.0	ND		09/15/93
cis-1,3-Dichloropropene	ug/L	1.0	ND		09/15/93
2-Chloroethylvinyl Ether	ug/L	1.0	ND		09/15/93
Bromoform	ug/L	0.5	ND		09/15/93
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND		09/15/93
Tetrachloroethylene	ug/L	0.5	ND		09/15/93

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 2

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090446		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			MW-4		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Methyl tert-butyl ether	ug/L	1.0	ND		09/15/93
Benzene	ug/L	1.0	ND		09/15/93
Toluene	ug/L	1.0	ND		09/15/93
Chlorobenzene	ug/L	1.0	ND		09/15/93
Ethylbenzene	ug/L	1.0	ND		09/15/93
Xylenes	ug/L	1.0	ND		09/15/93
1,3-Dichlorobenzene	ug/L	1.0	ND		09/15/93
1,4-Dichlorobenzene	ug/L	1.0	ND		09/15/93
1,2-Dichlorobenzene	ug/L	1.0	ND		09/15/93
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				625	
625 Date Extracted	Date		091093		09/10/93
Acenaphthene	ug/L	10	ND		09/16/93
Acenaphthylene	ug/L	10	ND		09/16/93
Anthracene	ug/L	10	ND		09/16/93
Benzoic Acid	ug/L	50	ND		09/16/93
Benz(a)anthracene	ug/L	10	ND		09/16/93
Benzo(b)fluoranthene	ug/L	10	ND		09/16/93
Benzo(k)fluoranthene	ug/L	10	ND		09/16/93
Benzo(g,h,i)perylne	ug/L	10	ND		09/16/93
Benzo(A)pyrene	ug/L	10	ND		09/16/93
Bis(2-chloroethoxy)methane	ug/L	10	ND		09/16/93
Bis(2-chloroethyl) ether	ug/L	10	ND		09/16/93
Bis(2-chloroisopropyl) ether	ug/L	10	ND		09/16/93
Bis(2-ethylhexyl) phthalate	ug/L	10	ND		09/16/93
4-Bromophenyl phenyl ether	ug/L	10	ND		09/16/93
Butyl benzyl phthalate	ug/L	10	ND		09/16/93
2-Chloronaphthalene	ug/L	10	ND		09/16/93
4-Chlorophenyl phenyl ether	ug/L	10	ND		09/16/93
Chrysene	ug/L	10	ND		09/16/93
Dibenz(a,h)anthracene	ug/L	10	ND		09/16/93
Di-n-butyl phthalate	ug/L	10	ND		09/16/93

REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 3

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090446		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			MW-4		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				625	
1,2-Dichlorobenzene	ug/L	10	ND		09/16/93
1,3-Dichlorobenzene	ug/L	10	ND		09/16/93
1,4-Dichlorobenzene	ug/L	10	ND		09/16/93
3,3-Dichlorobenzidine	ug/L	20	ND		09/16/93
Diethyl phthalate	ug/L	10	ND		09/16/93
Dimethyl phthalate	ug/L	10	ND		09/16/93
2,4-Dinitrotoluene	ug/L	10	ND		09/16/93
2,6-Dinitrotoluene	ug/L	10	ND		09/16/93
1,2-Diphenylhydrazine	ug/L	10	ND		09/16/93
Di-n-octyl phthalate	ug/L	10	ND		09/16/93
Fluoranthene	ug/L	10	ND		09/16/93
Fluorene	ug/L	10	ND		09/16/93
Hexachlorobenzene	ug/L	10	ND		09/16/93
Hexachlorobutadiene	ug/L	10	ND		09/16/93
Hexachlorocyclopentadiene	ug/L	10	ND		09/16/93
Hexachloroethane	ug/L	10	ND		09/16/93
Indeno(1,2,3-cd)pyrene	ug/L	10	ND		09/16/93
Isophorone	ug/L	10	ND		09/16/93
Naphthalene	ug/L	10	ND		09/16/93
Nitrobenzene	ug/L	10	ND		09/16/93
N-Nitrosodimethylamine	ug/L	10	ND		09/16/93
N-Nitrosodiphenylamine	ug/L	10	ND		09/16/93
N-Nitrosodi-n-propylamine	ug/L	10	ND		09/16/93
Phenanthrene	ug/L	10	ND		09/16/93
Pyrene	ug/L	10	ND		09/16/93
1,2,4-Trichlorobenzene	ug/L	10	ND		09/16/93
2-Fluorobiphenyl (surrogate)	%		74		09/16/93
Nitrobenzene-d5 (surrogate)	%		69		09/16/93
Terphenyl-d14 (surrogate)	%		45		09/16/93

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REPORT OF LABORATORY ANALYSIS

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090454		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/L	0.005	0.012	239.2	09/13/93
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Chloromethane	ug/L	1.0	ND		09/15/93
Bromomethane	ug/L	1.0	ND		09/15/93
Dichlorodifluoromethane	ug/L	1.0	ND		09/15/93
Vinyl chloride	ug/L	1.0	ND		09/15/93
Chloroethane	ug/L	1.0	ND		09/15/93
Methylene chloride	ug/L	1.0	ND		09/15/93
Trichlorofluoromethane	ug/L	1.0	ND		09/15/93
1,1-Dichloroethylene	ug/L	1.0	ND		09/15/93
1,1-Dichloroethane	ug/L	1.0	ND		09/15/93
trans-1,2-Dichloroethylene	ug/L	1.0	ND		09/15/93
Chloroform	ug/L	0.5	38		09/15/93
1,2-Dichloroethane	ug/L	1.0	ND		09/15/93
1,1,1-Trichloroethane	ug/L	1.0	ND		09/15/93
Carbon Tetrachloride	ug/L	1.0	ND		09/15/93
Bromodichlormethane	ug/L	0.5	1.5		09/15/93
1,2-Dichloropropane	ug/L	1.0	ND		09/15/93
trans-1,3-Dichloropropene	ug/L	1.0	ND		09/15/93
1,1,2-Trichloroethylene	ug/L	1.0	ND		09/15/93
Dibromochloromethane	ug/L	0.5	ND		09/15/93
1,1,2-Trichloroethane	ug/L	1.0	ND		09/15/93
cis-1,3-Dichloropropene	ug/L	1.0	ND		09/15/93
2-Chloroethylvinyl Ether	ug/L	1.0	ND		09/15/93
Bromoform	ug/L	0.5	ND		09/15/93
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND		09/15/93
Tetrachloroethylene	ug/L	0.5	ND		09/15/93
Methyl tert-butyl ether	ug/L	1.0	ND		09/15/93
Benzene	ug/L	1.0	ND		09/15/93

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090454		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Toluene	ug/L	1.0	ND		09/15/93
Chlorobenzene	ug/L	1.0	ND		09/15/93
Ethylbenzene	ug/L	1.0	ND		09/15/93
Xylenes	ug/L	1.0	ND		09/15/93
1,3-Dichlorobenzene	ug/L	1.0	ND		09/15/93
1,4-Dichlorobenzene	ug/L	1.0	ND		09/15/93
1,2-Dichlorobenzene	ug/L	1.0	ND		09/15/93
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				625	
625 Date Extracted	Date		091093		09/10/93
Acenaphthene	ug/L	10	ND		09/16/93
Acenaphthylene	ug/L	10	ND		09/16/93
Anthracene	ug/L	10	ND		09/16/93
Benzoic Acid	ug/L	50	ND		09/16/93
Benz(a)anthracene	ug/L	10	ND		09/16/93
Benzo(b)fluoranthene	ug/L	10	ND		09/16/93
Benzo(k)fluoranthene	ug/L	10	ND		09/16/93
Benzo(g,h,i)perylne	ug/L	10	ND		09/16/93
Benzo(A)pyrene	ug/L	10	ND		09/16/93
Bis(2-chloroethoxy)methane	ug/L	10	ND		09/16/93
Bis(2-chloroethyl) ether	ug/L	10	ND		09/16/93
Bis(2-chloroisopropyl) ether	ug/L	10	ND		09/16/93
Bis(2-ethylhexyl) phthalate	ug/L	10	ND		09/16/93
4-Bromophenyl phenyl ether	ug/L	10	ND		09/16/93
Butyl benzyl phthalate	ug/L	10	ND		09/16/93
2-Chloronaphthalene	ug/L	10	ND		09/16/93
4-Chlorophenyl phenyl ether	ug/L	10	ND		09/16/93
Chrysene	ug/L	10	ND		09/16/93
Dibenz(a,h)anthracene	ug/L	10	ND		09/16/93
Di-n-butyl phthalate	ug/L	10	ND		09/16/93
1,2-Dichlorobenzene	ug/L	10	ND		09/16/93
1,3-Dichlorobenzene	ug/L	10	ND		09/16/93

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090454		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			MW-5		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				625	
1,4-Dichlorobenzene	ug/L	10	ND		09/16/93
3,3-Dichlorobenzidine	ug/L	20	ND		09/16/93
Diethyl phthalate	ug/L	10	ND		09/16/93
Dimethyl phthalate	ug/L	10	ND		09/16/93
2,4-Dinitrotoluene	ug/L	10	ND		09/16/93
2,6-Dinitrotoluene	ug/L	10	ND		09/16/93
1,2-Diphenylhydrazine	ug/L	10	ND		09/16/93
Di-n-octyl phthalate	ug/L	10	ND		09/16/93
Fluoranthene	ug/L	10	ND		09/16/93
Fluorene	ug/L	10	ND		09/16/93
Hexachlorobenzene	ug/L	10	ND		09/16/93
Hexachlorobutadiene	ug/L	10	ND		09/16/93
Hexachlorocyclopentadiene	ug/L	10	ND		09/16/93
Hexachloroethane	ug/L	10	ND		09/16/93
Indeno(1,2,3-cd)pyrene	ug/L	10	ND		09/16/93
Isophorone	ug/L	10	ND		09/16/93
Naphthalene	ug/L	10	ND		09/16/93
Nitrobenzene	ug/L	10	ND		09/16/93
N-Nitrosodimethylamine	ug/L	10	ND		09/16/93
N-Nitrosodiphenylamine	ug/L	10	ND		09/16/93
N-Nitrosodi-n-propylamine	ug/L	10	ND		09/16/93
Phenanthrene	ug/L	10	ND		09/16/93
Pyrene	ug/L	10	ND		09/16/93
1,2,4-Trichlorobenzene	ug/L	10	ND		09/16/93
2-Fluorobiphenyl (surrogate)	%		58		09/16/93
Nitrobenzene-d5 (surrogate)	%		63		09/16/93
Terphenyl-d14 (surrogate)	%		34		09/16/93

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090462		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/L	0.005	ND	239.2	09/13/93
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Chloromethane	ug/L	1.0	ND		09/15/93
Bromomethane	ug/L	1.0	ND		09/15/93
Dichlorodifluoromethane	ug/L	1.0	ND		09/15/93
Vinyl chloride	ug/L	1.0	ND		09/15/93
Chloroethane	ug/L	1.0	ND		09/15/93
Methylene chloride	ug/L	1.0	ND		09/15/93
Trichlorofluoromethane	ug/L	1.0	ND		09/15/93
1,1-Dichloroethylene	ug/L	1.0	ND		09/15/93
1,1-Dichloroethane	ug/L	1.0	ND		09/15/93
trans-1,2-Dichloroethylene	ug/L	1.0	ND		09/15/93
Chloroform	ug/L	0.5	0.60		09/15/93
1,2-Dichloroethane	ug/L	1.0	ND		09/15/93
1,1,1-Trichloroethane	ug/L	1.0	ND		09/15/93
Carbon Tetrachloride	ug/L	1.0	ND		09/15/93
Bromodichlormethane	ug/L	0.5	ND		09/15/93
1,2-Dichloropropane	ug/L	1.0	ND		09/15/93
trans-1,3-Dichloropropene	ug/L	1.0	ND		09/15/93
1,1,2-Trichloroethylene	ug/L	1.0	ND		09/15/93
Dibromochloromethane	ug/L	0.5	ND		09/15/93
1,1,2-Trichloroethane	ug/L	1.0	ND		09/15/93
cis-1,3-Dichloropropene	ug/L	1.0	ND		09/15/93
2-Chloroethylvinyl Ether	ug/L	1.0	ND		09/15/93
Bromoform	ug/L	0.5	ND		09/15/93
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND		09/15/93
Tetrachloroethylene	ug/L	0.5	ND		09/15/93
Methyl tert-butyl ether	ug/L	1.0	ND		09/15/93
Benzene	ug/L	1.0	ND		09/15/93

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090462		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Toluene	ug/L	1.0	ND		09/15/93
Chlorobenzene	ug/L	1.0	ND		09/15/93
Ethylbenzene	ug/L	1.0	ND		09/15/93
Xylenes	ug/L	1.0	1.4		09/15/93
1,3-Dichlorobenzene	ug/L	1.0	ND		09/15/93
1,4-Dichlorobenzene	ug/L	1.0	ND		09/15/93
1,2-Dichlorobenzene	ug/L	1.0	ND		09/15/93
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				625	
625 Date Extracted	Date		091093		09/10/93
Acenaphthene	ug/L	10	ND		09/16/93
Acenaphthylene	ug/L	10	ND		09/16/93
Anthracene	ug/L	10	ND		09/16/93
Benzoic Acid	ug/L	50	ND		09/16/93
Benz(a)anthracene	ug/L	10	ND		09/16/93
Benzo(b)fluoranthene	ug/L	10	ND		09/16/93
Benzo(k)fluoranthene	ug/L	10	ND		09/16/93
Benzo(g,h,i)perylne	ug/L	10	ND		09/16/93
Benzo(A)pyrene	ug/L	10	ND		09/16/93
Bis(2-chloroethoxy)methane	ug/L	10	ND		09/16/93
Bis(2-chloroethyl) ether	ug/L	10	ND		09/16/93
Bis(2-chloroisopropyl) ether	ug/L	10	ND		09/16/93
Bis(2-ethylhexyl) phthalate	ug/L	10	43		09/16/93
4-Bromophenyl phenyl ether	ug/L	10	ND		09/16/93
Butyl benzyl phthalate	ug/L	10	ND		09/16/93
2-Chloronaphthalene	ug/L	10	ND		09/16/93
4-Chlorophenyl phenyl ether	ug/L	10	ND		09/16/93
Chrysene	ug/L	10	ND		09/16/93
Dibenz(a,h)anthracene	ug/L	10	ND		09/16/93
Di-n-butyl phthalate	ug/L	10	ND		09/16/93
1,2-Dichlorobenzene	ug/L	10	ND		09/16/93
1,3-Dichlorobenzene	ug/L	10	ND		09/16/93

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090462		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			MW-6		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				625	
1,4-Dichlorobenzene	ug/L	10	ND		09/16/93
3,3-Dichlorobenzidine	ug/L	20	ND		09/16/93
Diethyl phthalate	ug/L	10	ND		09/16/93
Dimethyl phthalate	ug/L	10	ND		09/16/93
2,4-Dinitrotoluene	ug/L	10	ND		09/16/93
2,6-Dinitrotoluene	ug/L	10	ND		09/16/93
1,2-Diphenylhydrazine	ug/L	10	ND		09/16/93
Di-n-octyl phthalate	ug/L	10	ND		09/16/93
Fluoranthene	ug/L	10	ND		09/16/93
Fluorene	ug/L	10	ND		09/16/93
Hexachlorobenzene	ug/L	10	ND		09/16/93
Hexachlorobutadiene	ug/L	10	ND		09/16/93
Hexachlorocyclopentadiene	ug/L	10	ND		09/16/93
Hexachloroethane	ug/L	10	ND		09/16/93
Indeno(1,2,3-cd)pyrene	ug/L	10	ND		09/16/93
Isophorone	ug/L	10	ND		09/16/93
Naphthalene	ug/L	10	ND		09/16/93
Nitrobenzene	ug/L	10	ND		09/16/93
N-Nitrosodimethylamine	ug/L	10	ND		09/16/93
N-Nitrosodiphenylamine	ug/L	10	ND		09/16/93
N-Nitrosodi-n-propylamine	ug/L	10	ND		09/16/93
Phenanthrene	ug/L	10	ND		09/16/93
Pyrene	ug/L	10	ND		09/16/93
1,2,4-Trichlorobenzene	ug/L	10	ND		09/16/93
2-Fluorobiphenyl (surrogate)	%		69		09/16/93
Nitrobenzene-d5 (surrogate)	%		67		09/16/93
Terphenyl-d14 (surrogate)	%		45		09/16/93

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REPORT OF LABORATORY ANALYSIS

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090470		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			VEW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/L	0.005	ND	239.2	09/13/93
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Chloromethane	ug/L	1.0	ND		09/15/93
Bromomethane	ug/L	1.0	ND		09/15/93
Dichlorodifluoromethane	ug/L	1.0	ND		09/15/93
Vinyl chloride	ug/L	1.0	ND		09/15/93
Chloroethane	ug/L	1.0	ND		09/15/93
Methylene chloride	ug/L	1.0	ND		09/15/93
Trichlorofluoromethane	ug/L	1.0	ND		09/15/93
1,1-Dichloroethylene	ug/L	1.0	ND		09/15/93
1,1-Dichloroethane	ug/L	1.0	ND		09/15/93
trans-1,2-Dichloroethylene	ug/L	1.0	ND		09/15/93
Chloroform	ug/L	0.5	0.88		09/15/93
1,2-Dichloroethane	ug/L	1.0	ND		09/15/93
1,1,1-Trichloroethane	ug/L	1.0	ND		09/15/93
Carbon Tetrachloride	ug/L	1.0	ND		09/15/93
Bromodichlormethane	ug/L	0.5	ND		09/15/93
1,2-Dichloropropane	ug/L	1.0	ND		09/15/93
trans-1,3-Dichloropropene	ug/L	1.0	ND		09/15/93
1,1,2-Trichloroethylene	ug/L	1.0	ND		09/15/93
Dibromochloromethane	ug/L	0.5	ND		09/15/93
1,1,2-Trichloroethane	ug/L	1.0	ND		09/15/93
cis-1,3-Dichloropropene	ug/L	1.0	ND		09/15/93
2-Chloroethylvinyl Ether	ug/L	1.0	ND		09/15/93
Bromoform	ug/L	0.5	ND		09/15/93
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND		09/15/93
Tetrachloroethylene	ug/L	0.5	ND		09/15/93
Methyl tert-butyl ether	ug/L	1.0	ND		09/15/93
Benzene	ug/L	1.0	4.5		09/15/93

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REPORT OF LABORATORY ANALYSIS

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090470		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			VEW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
PURGEABLE HALOCARBONS AND AROMATICS				601/602	
Toluene	ug/L	1.0	ND		09/15/93
Chlorobenzene	ug/L	1.0	ND		09/15/93
Ethylbenzene	ug/L	1.0	ND		09/15/93
Xylenes	ug/L	1.0	1.9		09/15/93
1,3-Dichlorobenzene	ug/L	1.0	ND		09/15/93
1,4-Dichlorobenzene	ug/L	1.0	ND		09/15/93
1,2-Dichlorobenzene	ug/L	1.0	ND		09/15/93
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				625	
625 Date Extracted	Date		091093		09/10/93
Acenaphthene	ug/L	10	ND		09/16/93
Acenaphthylene	ug/L	10	ND		09/16/93
Anthracene	ug/L	10	ND		09/16/93
Benzoic Acid	ug/L	50	ND		09/16/93
Benz(a)anthracene	ug/L	10	ND		09/16/93
Benzo(b)fluoranthene	ug/L	10	ND		09/16/93
Benzo(k)fluoranthene	ug/L	10	ND		09/16/93
Benzo(g,h,i)perylne	ug/L	10	ND		09/16/93
Benzo(A)pyrene	ug/L	10	ND		09/16/93
Bis(2-chloroethoxy)methane	ug/L	10	ND		09/16/93
Bis(2-chloroethyl) ether	ug/L	10	ND		09/16/93
Bis(2-chloroisopropyl) ether	ug/L	10	ND		09/16/93
Bis(2-ethylhexyl) phthalate	ug/L	10	ND		09/16/93
4-Bromophenyl phenyl ether	ug/L	10	ND		09/16/93
Butyl benzyl phthalate	ug/L	10	ND		09/16/93
2-Chloronaphthalene	ug/L	10	ND		09/16/93
4-Chlorophenyl phenyl ether	ug/L	10	ND		09/16/93
Chrysene	ug/L	10	ND		09/16/93
Dibenz(a,h)anthracene	ug/L	10	ND		09/16/93
Di-n-butyl phthalate	ug/L	10	ND		09/16/93
1,2-Dichlorobenzene	ug/L	10	ND		09/16/93
1,3-Dichlorobenzene	ug/L	10	ND		09/16/93

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REPORT OF LABORATORY ANALYSIS

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September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PACE Sample Number:			92 0090470		
Date Collected:			09/08/93		
Date Received:			09/09/93		
Client Sample ID:			VEW-1		
Parameter	Units	MDL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS				625	
1,4-Dichlorobenzene	ug/L	10	ND		09/16/93
3,3-Dichlorobenzidine	ug/L	20	ND		09/16/93
Diethyl phthalate	ug/L	10	ND		09/16/93
Dimethyl phthalate	ug/L	10	ND		09/16/93
2,4-Dinitrotoluene	ug/L	10	ND		09/16/93
2,6-Dinitrotoluene	ug/L	10	ND		09/16/93
1,2-Diphenylhydrazine	ug/L	10	ND		09/16/93
Di-n-octyl phthalate	ug/L	10	ND		09/16/93
Fluoranthene	ug/L	10	ND		09/16/93
Fluorene	ug/L	10	ND		09/16/93
Hexachlorobenzene	ug/L	10	ND		09/16/93
Hexachlorobutadiene	ug/L	10	ND		09/16/93
Hexachlorocyclopentadiene	ug/L	10	ND		09/16/93
Hexachloroethane	ug/L	10	ND		09/16/93
Indeno(1,2,3-cd)pyrene	ug/L	10	ND		09/16/93
Isophorone	ug/L	10	ND		09/16/93
Naphthalene	ug/L	10	ND		09/16/93
Nitrobenzene	ug/L	10	ND		09/16/93
N-Nitrosodimethylamine	ug/L	10	ND		09/16/93
N-Nitrosodiphenylamine	ug/L	10	ND		09/16/93
N-Nitrosodi-n-propylamine	ug/L	10	ND		09/16/93
Phenanthrene	ug/L	10	ND		09/16/93
Pyrene	ug/L	10	ND		09/16/93
1,2,4-Trichlorobenzene	ug/L	10	ND		09/16/93
2-Fluorobiphenyl (surrogate)	%		76		09/16/93
Nitrobenzene-d5 (surrogate)	%		67		09/16/93
Terphenyl-d14 (surrogate)	%		50		09/16/93

9800 Kincey Avenue, Suite 100
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TEL: 704-875-9092
FAX: 704-875-9091

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 13

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

These data have been reviewed and are approved for release.

Charles M. Cabaniss
Manager, Inorganic Chemistry

Margaret S. Harding
Manager, Organic Chemistry

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TEL: 704-875-9092
FAX: 704-875-9091

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Mr. Burt Brown
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FOOTNOTES
for pages 1 through 13

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

MDL Method Detection Limit
ND Not detected at or above the MDL.

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REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
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QUALITY CONTROL DATA

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

Lead
Batch: 92 22520
Samples: 92 0090446, 92 0090454, 92 0090462, 92 0090470

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Lead	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Lead	mg/L	0.005	0.022	105%

Mr. Burt Brown
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QUALITY CONTROL DATA

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS
Batch: 92 22631
Samples: 92 0090446, 92 0090454, 92 0090462, 92 0090470

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Acenaphthene	ug/L	10	ND
Acenaphthylene	ug/L	10	ND
Anthracene	ug/L	10	ND
Benzoic Acid	ug/L	50	ND
Benz(a)anthracene	ug/L	10	ND
Benzo(b)fluoranthene	ug/L	10	ND
Benzo(k)fluoranthene	ug/L	10	ND
Benzo(g,h,i)perylne	ug/L	10	ND
Benzo(A)pyrene	ug/L	10	ND
Bis(2-chloroethoxy)methane	ug/L	10	ND
Bis(2-chloroethyl) ether	ug/L	10	ND
Bis(2-chloroisopropyl) ether	ug/L	10	ND
Bis(2-ethylhexyl) phthalate	ug/L	10	ND
4-Bromophenyl phenyl ether	ug/L	10	ND
Butyl benzyl phthalate	ug/L	10	ND
2-Chloronaphthalene	ug/L	10	ND
4-Chlorophenyl phenyl ether	ug/L	10	ND
Chrysene	ug/L	10	ND
Dibenz(a,h)anthracene	ug/L	10	ND
Di-n-butyl phthalate	ug/L	10	ND
1,2-Dichlorobenzene	ug/L	10	ND
1,3-Dichlorobenzene	ug/L	10	ND
1,4-Dichlorobenzene	ug/L	10	ND
3,3-Dichlorobenzidine	ug/L	20	ND
Diethyl phthalate	ug/L	10	ND
Dimethyl phthalate	ug/L	10	ND
2,4-Dinitrotoluene	ug/L	10	ND
2,6-Dinitrotoluene	ug/L	10	ND
1,2-Diphenylhydrazine	ug/L	10	ND
Di-n-octyl phthalate	ug/L	10	ND
Fluoranthene	ug/L	10	ND
Fluorene	ug/L	10	ND

Mr. Burt Brown
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QUALITY CONTROL DATA

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

BASE/NEUTRAL SEMIVOLATILE ORGANICS GC/MS
Batch: 92 22631
Samples: 92 0090446, 92 0090454, 92 0090462, 92 0090470

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Hexachlorobenzene	ug/L	10	ND
Hexachlorobutadiene	ug/L	10	ND
Hexachlorocyclopentadiene	ug/L	10	ND
Hexachloroethane	ug/L	10	ND
Indeno(1,2,3-cd)pyrene	ug/L	10	ND
Isophorone	ug/L	10	ND
Naphthalene	ug/L	10	ND
Nitrobenzene	ug/L	10	ND
N-Nitrosodimethylamine	ug/L	10	ND
N-Nitrosodiphenylamine	ug/L	10	ND
N-Nitrosodi-n-propylamine	ug/L	10	ND
Phenanthrene	ug/L	10	ND
Pyrene	ug/L	10	ND
1,2,4-Trichlorobenzene	ug/L	10	ND
2-Fluorobiphenyl (surrogate)	%		74
Nitrobenzene-d5 (surrogate)	%		78
Terphenyl-d14 (surrogate)	%		80

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Acenaphthene	ug/L	10	50	76%	78%	2%
1,4-Dichlorobenzene	ug/L	10	50	64%	64%	0%
2,4-Dinitrotoluene	ug/L	10	50	74%	82%	10%
N-Nitrosodi-n-propylamine	ug/L	10	50	82%	82%	0%
Pyrene	ug/L	10	50	82%	82%	0%
1,2,4-Trichlorobenzene	ug/L	10	50	66%	68%	2%

Mr. Burt Brown
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QUALITY CONTROL DATA

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PURGEABLE HALOCARBONS AND AROMATICS
Batch: 92 22591
Samples: 92 0090446, 92 0090454, 92 0090462, 92 0090470

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Chloromethane	ug/L	1.0	ND
Bromomethane	ug/L	1.0	ND
Dichlorodifluoromethane	ug/L	1.0	ND
Vinyl chloride	ug/L	1.0	ND
Chloroethane	ug/L	1.0	ND
Methylene chloride	ug/L	1.0	ND
Trichlorofluoromethane	ug/L	1.0	ND
1,1-Dichloroethylene	ug/L	1.0	ND
1,1-Dichloroethane	ug/L	1.0	ND
trans-1,2-Dichloroethylene	ug/L	1.0	ND
Chloroform	ug/L	0.5	ND
1,2-Dichloroethane	ug/L	1.0	ND
1,1,1-Trichloroethane	ug/L	1.0	ND
Carbon Tetrachloride	ug/L	1.0	ND
Bromodichlormethane	ug/L	0.5	ND
1,2-Dichloropropane	ug/L	1.0	ND
trans-1,3-Dichloropropene	ug/L	1.0	ND
1,1,2-Trichloroethylene	ug/L	1.0	ND
Dibromochloromethane	ug/L	0.5	ND
1,1,2-Trichloroethane	ug/L	1.0	ND
cis-1,3-Dichloropropene	ug/L	1.0	ND
2-Chloroethylvinyl Ether	ug/L	1.0	ND
Bromoform	ug/L	0.5	ND
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND
Tetrachloroethylene	ug/L	0.5	ND
Methyl tert-butyl ether	ug/L	1.0	ND
Benzene	ug/L	1.0	ND
Toluene	ug/L	1.0	ND
Chlorobenzene	ug/L	1.0	ND
Ethylbenzene	ug/L	1.0	ND
Xylenes	ug/L	1.0	ND
1,3-Dichlorobenzene	ug/L	1.0	ND

REPORT OF LABORATORY ANALYSIS

Mr. Burt Brown
Page 19

QUALITY CONTROL DATA

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

PURGEABLE HALOCARBONS AND AROMATICS
Batch: 92 22591
Samples: 92 0090446, 92 0090454, 92 0090462, 92 0090470

METHOD BLANK:

Parameter	Units	MDL	Method Blank
1,4-Dichlorobenzene	ug/L	1.0	ND
1,2-Dichlorobenzene	ug/L	1.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
1,1-Dichloroethane	ug/L	1.0	20	105%	95%	10%
Chloroform	ug/L	0.5	20	125%	125%	0%
Carbon Tetrachloride	ug/L	1.0	20	105%	95%	10%
1,1,2-Trichloroethylene	ug/L	1.0	20	115%	115%	0%
1,1,2-Trichloroethane	ug/L	1.0	20	135%	125%	7%
Bromoform	ug/L	0.5	20	90%	80%	11%
Benzene	ug/L	1.0	20	115%	115%	0%
Toluene	ug/L	1.0	20	110%	110%	0%
Chlorobenzene	ug/L	1.0	20	110%	110%	0%
Ethylbenzene	ug/L	1.0	20	125%	125%	0%
Xylenes	ug/L	1.0	40	110%	110%	0%
1,3-Dichlorobenzene	ug/L	1.0	20	110%	110%	0%
1,4-Dichlorobenzene	ug/L	1.0	20	105%	105%	0%
1,2-Dichlorobenzene	ug/L	1.0	20	105%	105%	0%

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Mr. Burt Brown
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FOOTNOTES
for pages 15 through 19

September 20, 1993
PACE Project Number: 630909503

Client Reference: Gate City

MDL	Method Detection Limit
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference

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FAX: 704-875-9091

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

348 I-85 SOUTH, SUITE H
HARLOTTE, N.C. 28208
(704) 394-6913

PO# 42309

612067

~~7605 SOUTH RAIL ROAD~~
~~CHARLESTON, S.C. 29420~~
~~803-824-6006~~

PROJECT NAME Gate City CONTACT NAME Burt Brown TELEPHONE NO. 704 394-6913

Samplers: Print Name Ed Wendland Signature

Project No: 920278 Gate City

SAMPLE ID	SAMPLE LOCATION	Composite	Grab	Date	Time	Sample Type: Water	Liquid	Oil	Solid	No. of Containers	601	602	1,4 Dioxane	1,2 Dichloroethane	Lead	625 - B/N			REMARKS
MW-4	monitor well		X	9/8	12:15	X				6	X	X	X	X	X	X			9044.6
MW-5	" "		X	9/8	12:50	X				6	X	X	X	X	X	X			9045.4
MW-6	" "		X	9/8	11:40	X				6	X	X	X	X	X	X			9046.2
VEW-1	" "		X	9/8	2:45	X				6	X	X	X	X	X	X			9047.0

COMMENTS: Standard Turnaround (7-Day)

Relinquished by: (Signature)			Received by: (Signature)	Date 9/9/93	Time 8:41
Relinquished by: (Signature)			Received by: (Signature)	Date	Time
Dispatched by: (Signature)	Date	Time	Received for Laboratory by:	Date 9-9-93	Time 9:30
Method of Shipment:				Date	Time

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solution

From:

NC WW Cert. #402 NC DW Cert. #37735
SC Lab ID 42002-Organics Certification
SC WW Cert. #99012

December 21, 1993

DEC 23 1993

ENVIRONMENTAL ASSOC., INC.

To: Shield Environmental
Attn: Burt Brown
2848 I-85 South, Suite H
Charlotte, NC 28208
PO#:42539 Project:Gate City

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA18176
Prism ID Number: 3292A1 Prism Customer Number: 6935
Customer Code: SHIELD
Phone Number: (704)394-6913/fax(704)394-6968
Customer Sample I.D#: WSW
Sample collection date: 11/23/93 Time: 09:15
Laboratory submittal date: 11/24/93 Time: 12:35
Received by: MJB Validated by: PFC

Parameter:
Method reference:
Result: done
Date started: 11/23/93
Time started: 00:00
Date finished: 12/14/93
Analyst: MJB

Parameter: METHOD 601
Method reference: 601
Result: see appended report
Date started: 12/04/93
Time started: 08:00
Date finished: 12/04/93
Analyst: HRM

Parameter: METHOD 602
Method reference: 602
Result: see appended report
Date started: 12/04/93
Time started: 08:00
Date finished: 12/04/93
Analyst: HRM

Data for METHOD 601 ug/L:

Component Name	Concentration	Component MDL

Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

Shield Environmental
Page: 2
December 21, 1993

Sample I.D. AA18176 (continued)

Data for METHOD 601 (continued):

Component Name	Concentration	Component MDL
CHLOROETHANE	Not Det	1
CHLOROMETHANE	Not Det	1
VINYL CHLORIDE	Not Det	1
BROMOMETHANE	Not Det	1
TRICHLOROFLOURO-METHANE	Not Det	1
1,1-DICHLOROETHENE	Not Det	1
METHYLENE CHLORIDE	4	1
TRANS-1,2-DICHLOROETHENE	Not Det	1
1,1-DICHLOROETHANE	Not Det	1
CHLOROFORM	Not Det	1
1,1,1-TRICHLOROETHANE	Not Det	1
CARBON TETRACHLORIDE	Not Det	1
1,2-DICHLOROETHANE	Not Det	1
TRICHLOROETHENE	Not Det	1
1,2-DICHLOROPROPANE	Not Det	1
BROMODICHLOROMETHANE	Not Det	1
TRANS-1,3-DICHLOROPROPENE	Not Det	1
CIS-1,3-DICHLOROPROPENE	Not Det	1
1,1,2-TRICHLOROETHANE	Not Det	1
TETRACHLOROETHENE	Not Det	1
DIBROMOCHLOROMETHANE	Not Det	1
EDB	Not Det	1
CHLOROBENZENE	Not Det	1
BROMOFORM	Not Det	1
1,1,2,2-TETRACHLOROETHANE	Not Det	1
1,3,-DICHLOROBENZENE	Not Det	1
1,4-DICHLOROBENZENE	1	1
1,2-DICHLOROBENZENE	1	1

Data for METHOD 602 ug/L:

Component Name	Concentration	Component MDL
METHYL TERT BUTYL ETHER	Not Det	1
ISOPROPYL ETHER	Not Det	1
BENZENE	Not Det	1
TOLUENE	Not Det	1
ETHYL BENZENE	Not Det	1
XYLENES	3	2

Comments:
Project: Gate City Truck Repair
P.O. #42539

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solution

Shield Environmental
Page: 3
December 21, 1993

Sample I.D. AA18176 (continued)

If there are any questions regarding this data, please call.

Angela D. Overcash
Laboratory Manager

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

2848 I-85 SOUTH, SUITE H
CHARLOTTE, N.C. 28208
(704) 394-6913

7605 SOUTH RAIL ROAD
CHARLESTON, S.C. 29420
803-824-6006

PROJECT NAME Gate City Truck Repair **CONTACT NAME** Hi Burt Brown **TELEPHONE NO.** 394 6913

Samplers: Print Name: H. Burt Brown Signature: H. Burt Brown

Project No:

SAMPLE ID	SAMPLE LOCATION	Composite	Grab	Date	Time	Sample Type: Water	Liquid	Oil	Solid	No. of Containers	ANALYSIS: 601	602 + MTBE							REMARKS
WSW	6319 Burnt Poplar		X	11/23/93	9:15	X				4	X	X							181776

P.O.# 42539 NC

COMMENTS:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
H. Burt Brown			[illegible]		
Relinquished by: (Signature) [illegible]			Received by: (Signature) Meredith Bondurant	11/24/93	12:35
Dispatched by: (Signature)			Received for Laboratory by:		
Method of Shipment:					

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
Carolina Business Center (704) 394-6913
2848 I-85 South Suite H. (800) 395-5220
Charlotte, NC. 28208 FAX (704) 394-6968

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT: Gate City Truck Repair
ADDRESS: Burnt Poplar Road, Greensboro, N.C.
WELL NUMBER: MW-1 DATE DRILLED: 5-21-93
DRILLING METHOD: Hollow stem auger
SCREEN DIA. 2" LENGTH 15 SLOT SIZE 0.010
CASING DIA. 2" LENGTH 4 TYPE PVC
DRILLER: SAEDACCO LOG BY: Burt Brown

SITE SKETCH

DEPTH FT BGL.	WELL CONSTRUCT	OVA READING	LITHOLOGY
0			Spud in asphalt
5			Red silty Clay
10			
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			

LEGEND:
CEMENT
BENTONITE
SAND

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
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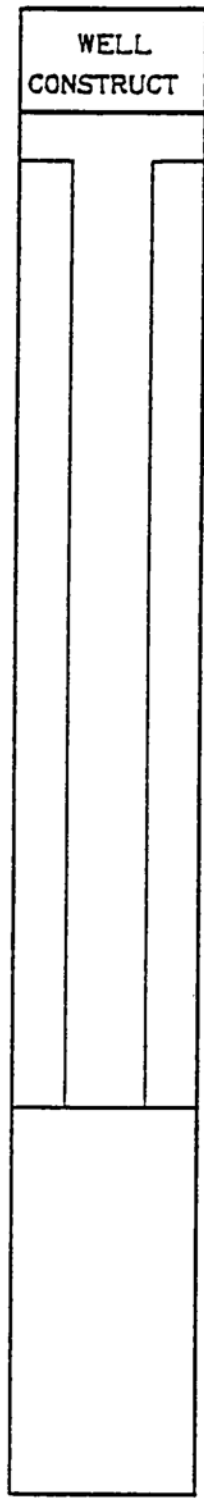
Charlotte, NC. 28208 FAX (704) 394-6968

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT: Gates City Truck Repair
ADDRESS: Burnt Poplar Road, Greensboro, N.C.
WELL NUMBER: MW-2 DATE DRILLED: 5-21-93
DRILLING METHOD: Hollow stem auger
SCREEN DIA. 2" LENGTH 10 SLOT SIZE 0.010
CASING DIA. 2" LENGTH 4 TYPE PVC
DRILLER: SAEDACCO LOG BY: Burt Brown

SITE SKETCH

DEPTH FT BGL	WELL CONSTRUCT	OVA READING	LITHOLOGY
0			Spud in asphalt
5			Red silty Clay
10			
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			



LEGEND:
CEMENT
BENTONITE
SAND

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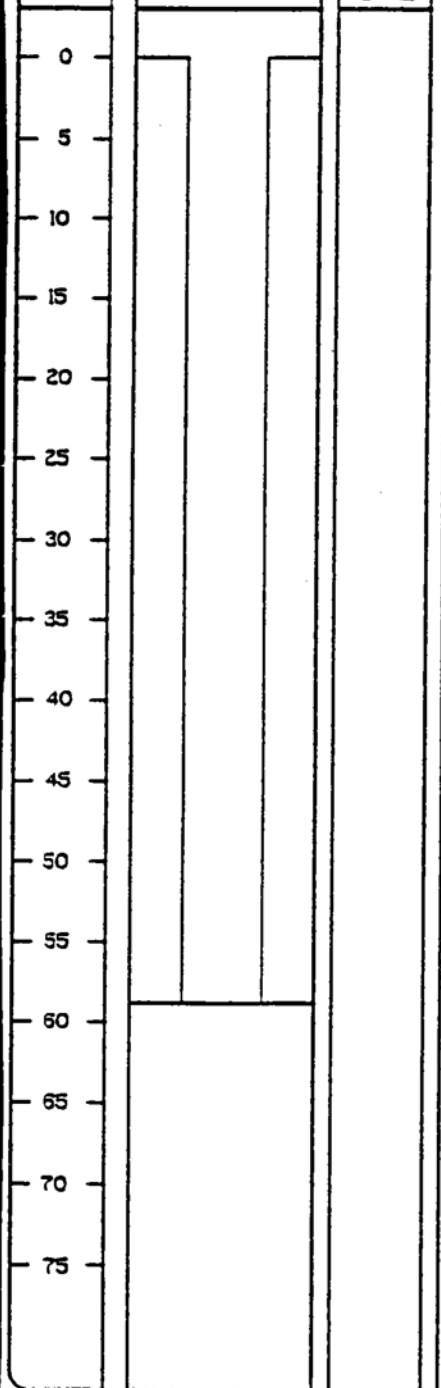
MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT: Gate City Truck Repair
ADDRESS: Burnt Poplar Road, Greensboro, N.C.
WELL NUMBER: MW-3 DATE DRILLED: 5-21-93
DRILLING METHOD: Hollow Stem Auger
SCREEN DIA. 2" LENGTH 10 SLOT SIZE 0.010
CASING DIA. 2" LENGTH 4 TYPE PVC
DRILLER: SAEDACCO LOG BY: Burt Brown

SITE SKETCH

DEPTH FT BGL	WELL CONSTRUCT	OVA READING	LITHOLOGY
0			Spud in asphalt
5			Red silty Clay
10			Tan silty Clay
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			



LEGEND:
CEMENT
BENTONITE
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MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT: Gate City Truck Repair

ADDRESS: Burnt Poplar Road, Greensboro, N.C.

WELL NUMBER: MW-4 DATE DRILLED: 9-2-93

DRILLING METHOD: Hollow stem auger

SCREEN DIA. 2" LENGTH 10 SLOT SIZE 0.010

CASING DIA. 2" LENGTH 4 TYPE PVC

DRILLER: SAEDACCO LOG BY: Burt Brown

SITE SKETCH

DEPTH FT BGL	WELL CONSTRUCT	OVA READING	LITHOLOGY
0			Spud in asphalt
5			Red silty Clay
10			
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			

LEGEND:

CEMENT

BENTONITE

SAND

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
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MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT: Gate City Truck REpair
ADDRESS: Burnt Poplar Road, Greensboro N.C.
WELL NUMBER: MW-5 DATE DRILLED: 9-2-93
DRILLING METHOD: Hollow stem auger
SCREEN DIA. 2" LENGTH 10 SLOT SIZE 0.010
CASING DIA. 2" LENGTH 4 TYPE PVC
DRILLER: SAEDACCO LOG BY: Burt Brown

SITE SKETCH

DEPTH FT BGL	WELL CONSTRUCT	OVA READING	LITHOLOGY
0			Spud in concrete
5			Red silty Clay
10			Tan silty Clay
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			

LEGEND:
CEMENT
BENTONITE
SAND

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
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MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT: Gate City Truck Repair
ADDRESS: Burnt Poplar Road, Greensboro, N.C.
WELL NUMBER: MW-6 DATE DRILLED: 9-2-93
DRILLING METHOD: Hollow stem auger
SCREEN DIA. 2" LENGTH 10 SLOT SIZE 0.010
CASING DIA. 2" LENGTH 4 TYPE PVC
DRILLER: SAEDACCO LOG BY: Burt Brown

SITE SKETCH

DEPTH FT BGL	WELL CONSTRUCT	OVA READING	LITHOLOGY
0			Spud in concrete
5			Red silty Clay
10			Tan silty Clay
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			

LEGEND:
CEMENT
BENTONITE
SAND

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Charlotte, NC. 28208 FAX (704) 394-6968

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT *Gates City Truck Repair*

ADDRESS *Greensboro, N.C.*

WELL NUMBER *VEW-1* DATE DRILLED

DRILLING METHOD *Air Rig*

SCREEN DIA. LENGTH SLOT SIZE

CASING DIA. LENGTH TYPE

DRILLER LOG BY

SITE SKETCH

DEPTH FT BGL	WELL CONSTRUCT	OVA READING	LITHOLOGY
0	NONE	NONE	Asphalt
5			
10			
15			
20			
25			
30			1-30' Light brown (tan) clay - plastic moist
35			30-38' Partially weathered rock (gray)
40			
45			38-48' Brown silty clay - micaceous with manganese staining slightly plastic
50			48-50' Partially weathered rock 50' Highly fractured bedrock
55			51' Competant bedrock (gray)
60			6" outer casings set at 51' (PVC casing) water at 55' screen 61-51 sand to 45' bent 45-40 grout to surface
65			
70			
75			

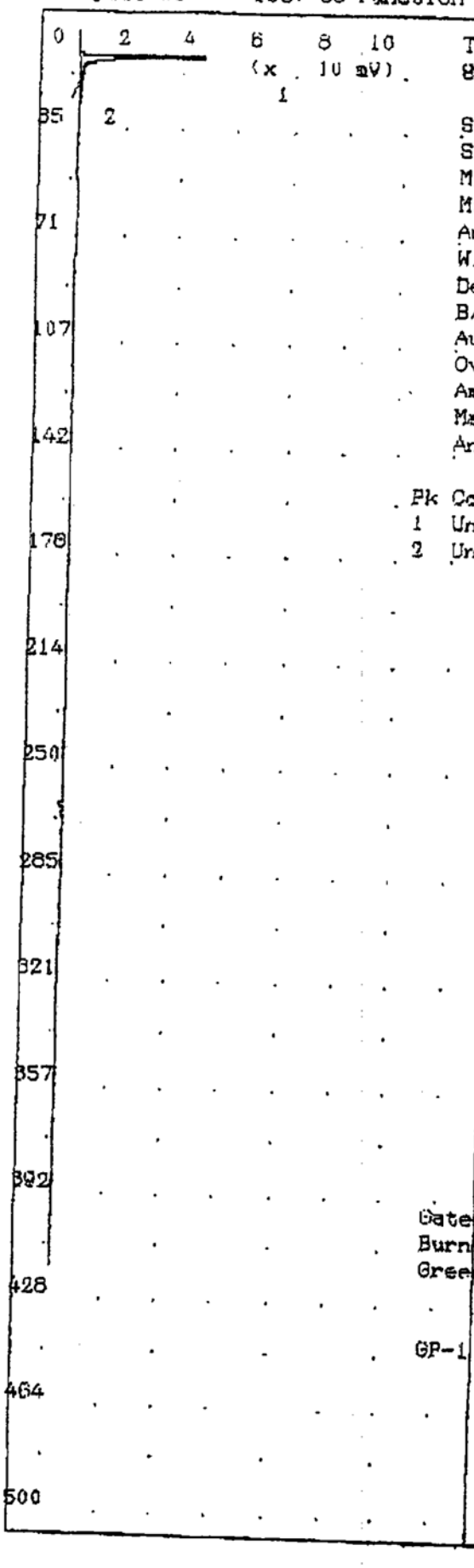
LEGEND:

CEMENT

BENTONITE

SAND

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Aug 17,93 12:16
Sample Time: Aug 17,93 11:05

Method

Slope Up	1.500	mV/Sec
Slope Down	4.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.500	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	10	ml/min
B/H Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	100	
Analysis Time	500.0	sec

Peak Report

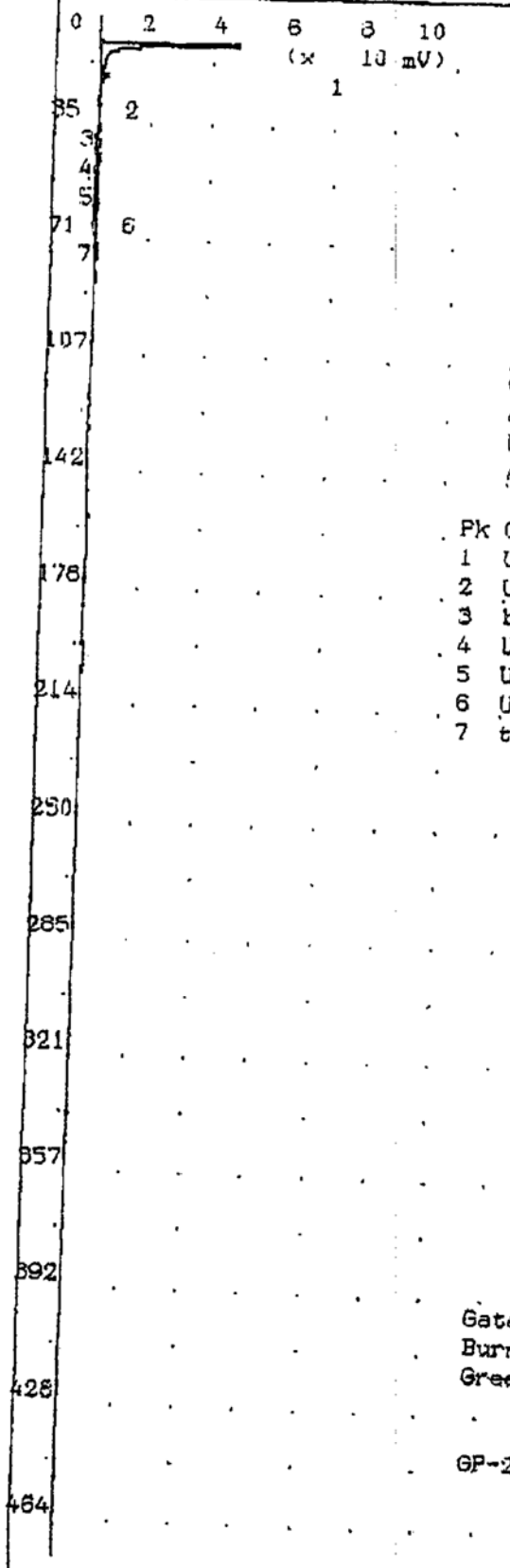
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	42.91 mVS	9.0
2	Unknown	0.397 mVS	16.6

Notes

Gate City Truck
Burnt Poplar Rd.
Greensboro, NC

GP-1

Analysis #9 10B+ GC Function Analysis Report



Time Printed: Aug 17,93 12:23
Sample Time: Aug 16,93 16:16

Method

Slope Up	1.500	mV/Sec
Slope Down	4.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.500	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	10	ml/min
B/H Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	100	
Analysis Time	500.0	sec

Peak Report

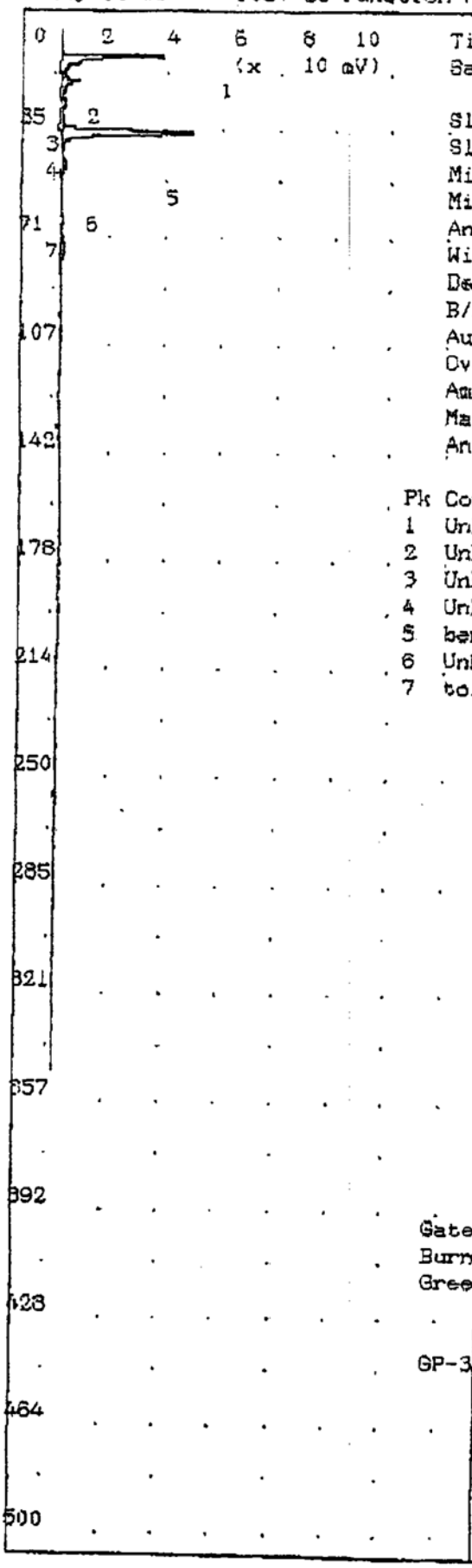
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	46.12 mVS	9.1
2	Unknown	1.467 mVS	19.1
3	benzene	0.054 PPB2	34.8
4	Unknown	3.394 mVS	40.1
5	Unknown	3.498 mVS	44.7
6	Unknown	6.700 mVS	56.4
7	toluene	0.137 PPB2	74.2

Notes

Gate City Truck
Burnt Poplar Rd.
Greensboro, NC

GP-2

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Aug 17,93 12:39
Sample Time: Aug 16,93 16:25

Method

Slope Up	3.000	mV/Sec
Slope Down	9.000	mV/Sec
Min Area	0.000	mVSec
Min Height	0.500	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	100	
Analysis Time	500.0	sec

Peak Report

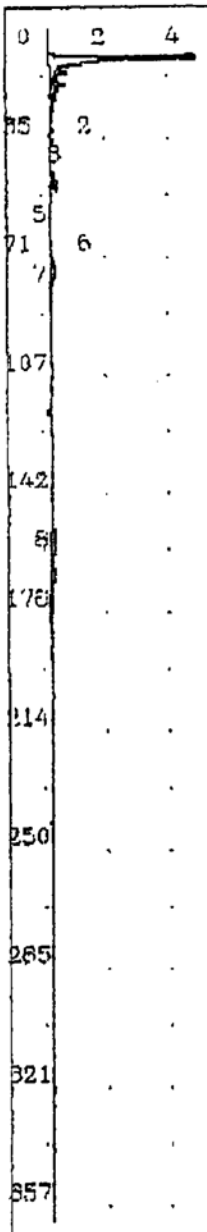
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	38.97 mVS	9.2
2	Unknown	11.45 mVS	17.4
3	Unknown	2.418 mVS	25.2
4	Unknown	1.343 mVS	31.0
5	benzene	1.720 PPB2	34.6
6	Unknown	3.637 mVS	46.1
7	toluene	0.134 PPB2	73.2

Notes

Gate City Truck
Burnt Poplar Rd.
Greensboro, NC

GP-3

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Aug 17,93 12:46
Sample Time: Aug 16,93 16:31

Method

Slope Up	1.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	0.000	mVSec
Min Height	0.500	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	100	
Analysis Time	500.0	sec

Peak Report

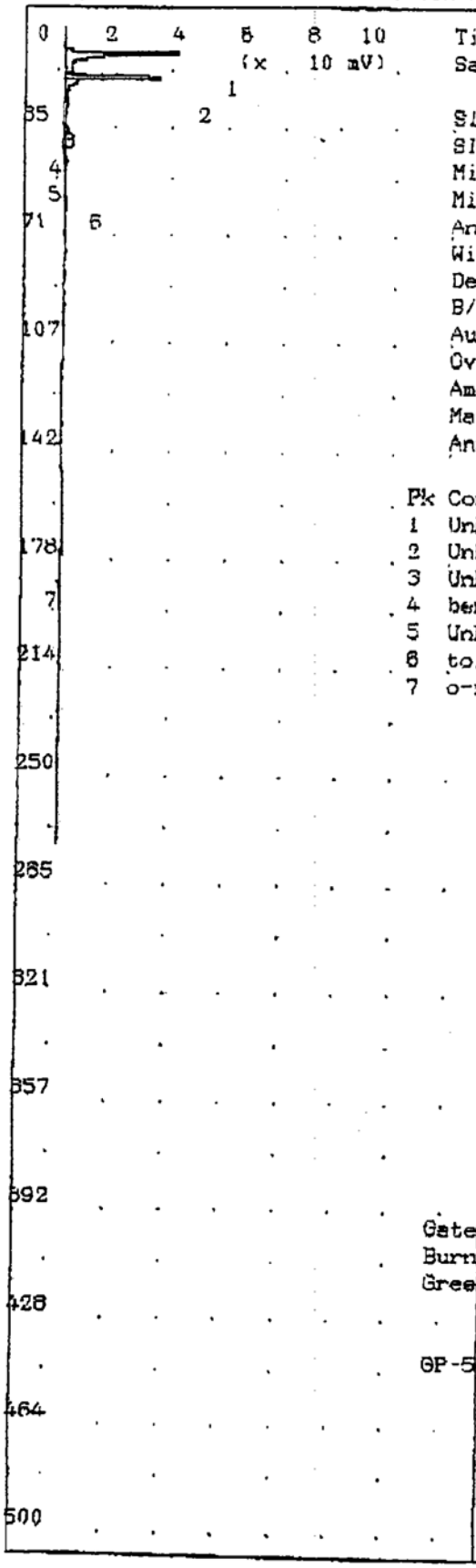
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	58.42 mVS	9.0
2	Unknown	2.783 mVS	13.4
3	Unknown	3.382 mVS	17.2
4	Unknown	0.995 mVS	19.0
5	benzene	0.041 PPB2	30.2
6	Unknown	5.719 mVS	45.2
7	toluene	0.271 PPB2	72.6
8	ethylbenzene	0.099 PPB2	154.6

Notes

Gate City Truck
Burnt Poplar Rd.
Greensboro, NC

GP-4

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Aug 17,93 12:54
Sample Time: Aug 16,93 17:32

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.500	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	100	
Analysis Time	500.0	sec

Peak Report

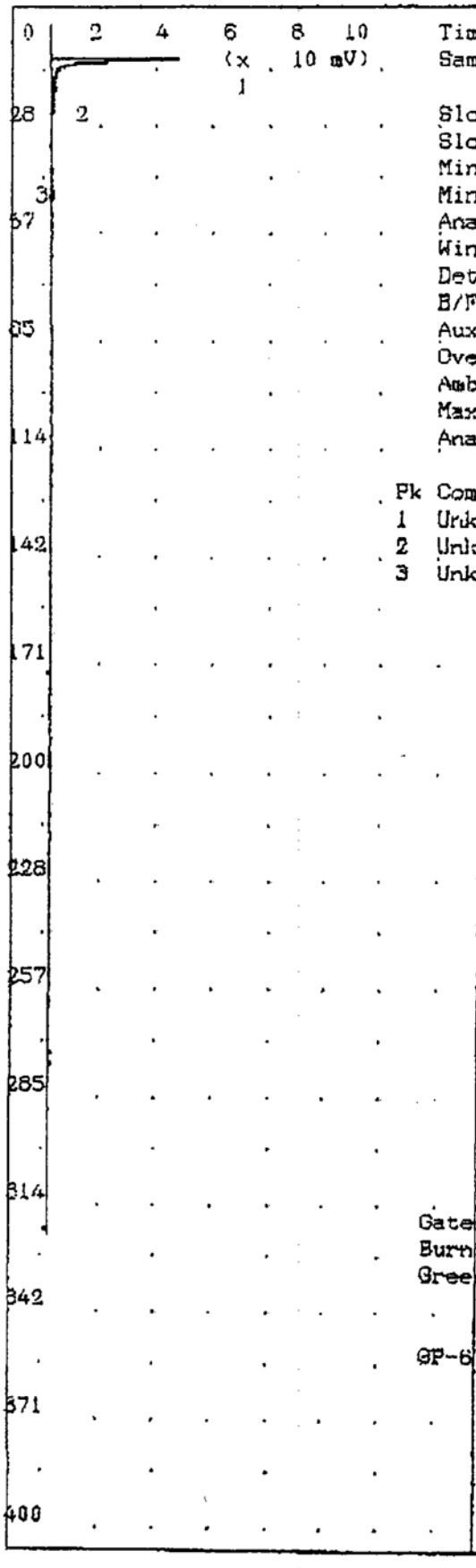
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	45.22 mVS	9.0
2	Unknown	36.42 mVS	17.0
3	Unknown	11.72 mVS	19.0
4	benzene	0.071 PPB2	34.6
5	Unknown	3.770 mVS	44.5
6	toluene	0.022 PPB2	63.0
7	o-xylene	1.104 PPB2	185.2

Notes

Gate City Truck
Burnt Poplar Rd.
Greensboro, NC

GP-5

Analysis #13 108+ GC Function Analysis Report



Time Printed: Aug 17,93 13:01
Sample Time: Aug 16,93 17:58

Method

Slope Up	1.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	0.000	mVSec
Min Height	0.500	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	100	
Analysis Time	400.0	sec

Peak Report

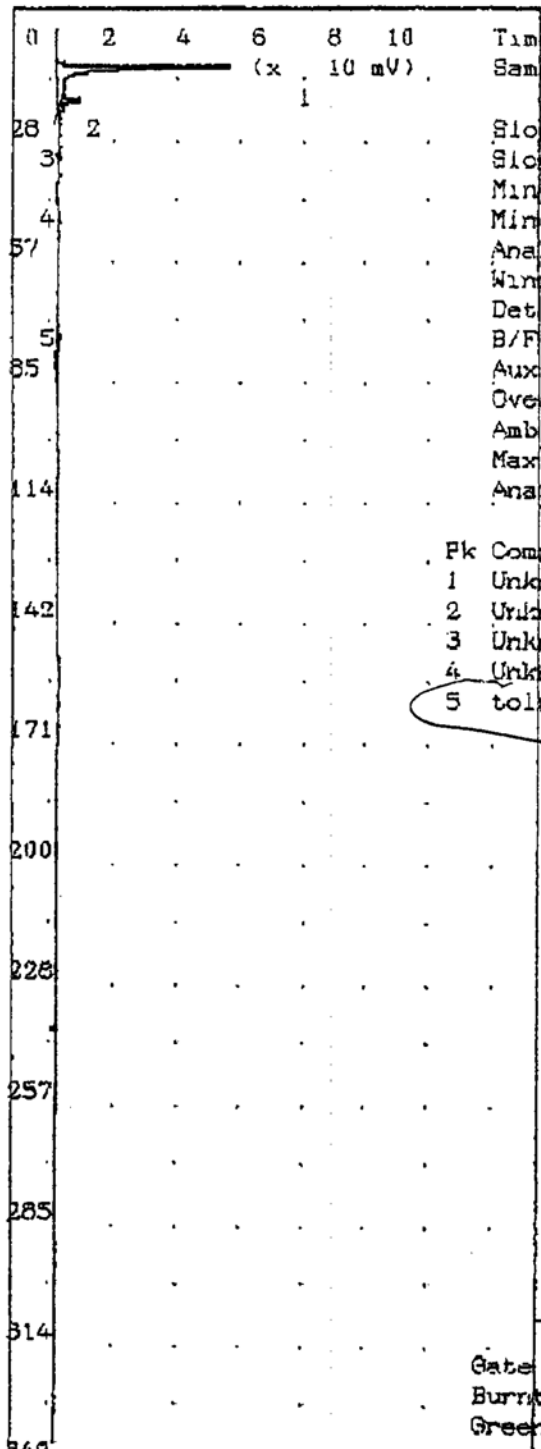
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	44.05 mVS	9.1
2	Unknown	0.758 mVS	16.9
3	Unknown	1.966 mVS	44.2

Notes

Gate City Truck
Burnt Poplar Rd.
Greensboro, NC

GP-6

Analysis #14 108+ GC Function Analysis Report



Time Printed: Aug 17,93 13:09
Sample Time: Aug 16,93 18:04

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.500	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	100	
Analysis Time	400.0	sec

Peak Report

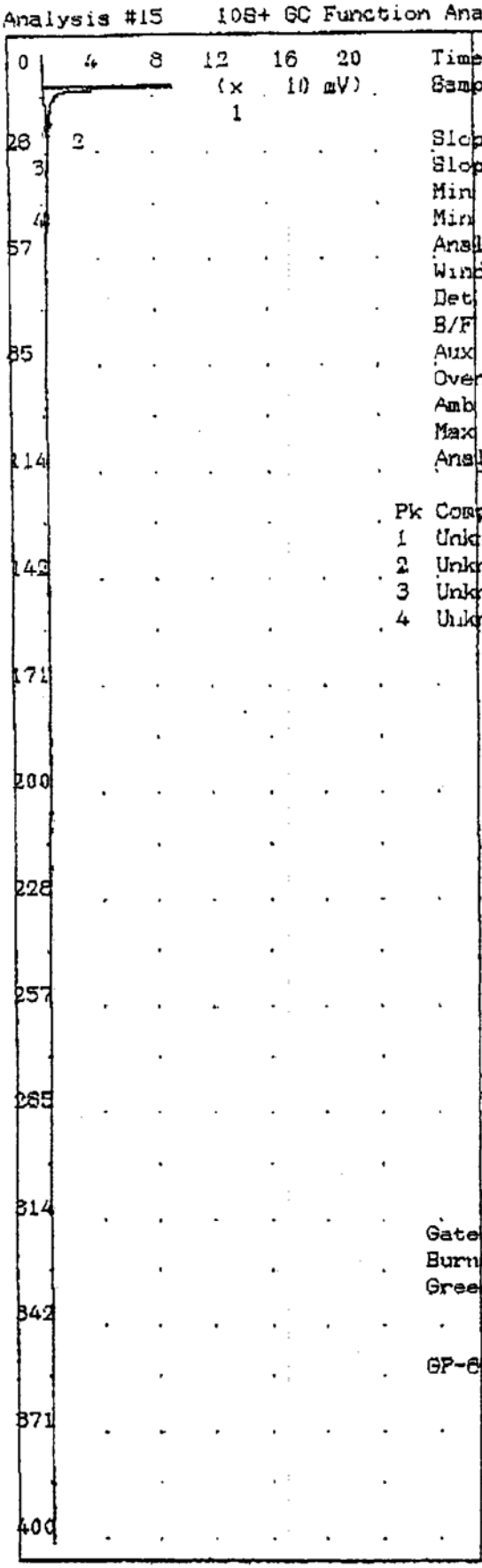
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	54.97 mVS	9.0
2	Unknown	3.388 mVS	17.0
3	Unknown	0.779 mVS	19.1
4	Unknown	2.037 mVS	44.8
5	toluene	0.085 PPBS	73.7

Notes

Gate City Truck
Burnt Poplar Rd.
Greensboro, NC

GP-7

Analysis #15 108+ GC Function Analysis Report



Time Printed: Aug 17,93 12:08
Sample Time: Aug 16,93 18:10

Method

Slope Up	1.500	mV/Sec
Slope Down	4.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.500	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	100	
Analysis Time	400.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	94.32 mVS	9.0
2	Unknown	1.106 mVS	15.4
3	Unknown	1.832 mVS	19.2
4	Unknown	4.634 mVS	44.6

Notes

Gate City Truck
Burnt Poplar Rd.
Greensboro, NC

GP-6

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

Gate City Trucking MW-1

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY	
Quad. No.	Serial No.
Lat.	Long. / Pc
Minor Basin	
Basin Code	
Header Ent.	GW-1 Ent.

DRILLING CONTRACTOR: SAEDACCO

DRILLER REGISTRATION NUMBER: 1021

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: Greensboro, N.C.
   6301 Burnt Poplar Road
   (Road, Community, or Subdivision and Lot No.)
   County: Guilford
2. OWNER: Walter L. Hannah, Trustee
   ADDRESS: PO Box 3463 (Street or Route No.)
   Greensboro, NC 27402 (City or Town / State / Zip Code)
3. DATE DRILLED: 5-21-93 USE OF WELL: monitoring
4. TOTAL DEPTH: 19' CUTTINGS COLLECTED: [X] Yes [ ] No
5. DOES WELL REPLACE EXISTING WELL? [ ] Yes [X] No
6. STATIC WATER LEVEL: 10 FT. [ ] above [X] below TOP OF CASING.
   TOP OF CASING IS 0' FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST: N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	4	0	2"	SCH 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	2	0	Portland	Pour

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	19	4	2"	0.010 in.	PVC

13. GRAVEL PACK:

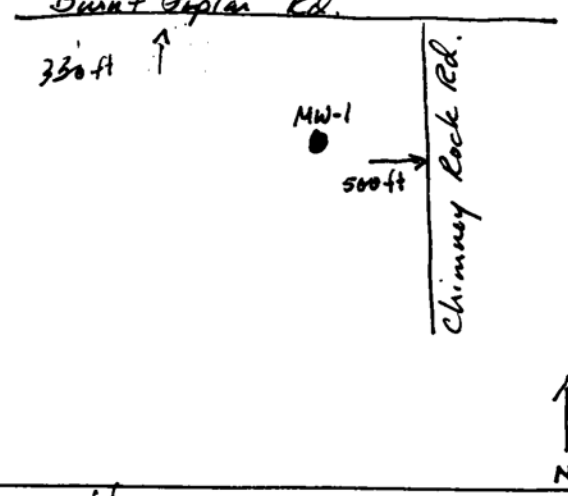
	Depth From	Depth To	Size	Material
	19	3	20-60	Sand

14. REMARKS: Bentonite seal 3 - 2"

DRILLING LOG	
Depth From	Depth To	Formation Description
0	19	Red silty Clay

If additional space is needed use back of form.

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



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

SIGNATURE OF CONTRACTOR OR AGENT — DATE: 3-7-94

GW-1 REVISED 2/90

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

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

Gate City Trucking
MW-2

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY	
Quad. No.	Serial No.
Lat.	Long. / Pc
Minor Basin	
Basin Code	
Header Ent.	GW-1 Ent.

DRILLING CONTRACTOR: SAEDACCO

DRILLER REGISTRATION NUMBER: 1021

STATE WELL CONSTRUCTION PERMIT NUMBER:

1. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: Greensboro, N.C.
   6301 Burnt Poplar Road
   (Road, Community, or Subdivision and Lot No.)
   County: Guilford
2. OWNER: Walter L. Hannah, Trustee
   ADDRESS: PO Box 3463 (Street or Route No.)
   Greensboro, N.C. 27402 (City or Town, State, Zip Code)
3. DATE DRILLED: 5-21-93 USE OF WELL: Monitoring
4. TOTAL DEPTH: 14' CUTTINGS COLLECTED: ☒ Yes ☐ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 11 FT. ☐ above ☒ below TOP OF CASING.
   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST: N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	4	0	2"	SCH 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	2	0	Portland	PVC

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	14	4	2"	0.010 in.	PVC

13. GRAVEL PACK:

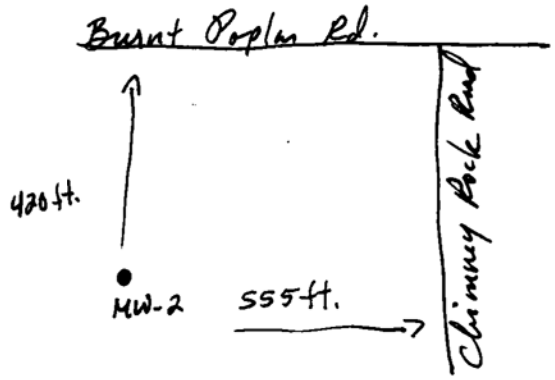
	Depth From	Depth To	Size	Material
	14	3	20-60	Sand

14. REMARKS: Bentonite seal 3-2

DRILLING LOG		
Depth From	Depth To	Formation Description
0	14	Red silty Clay

If additional space is needed use back of form.

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



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

SIGNATURE OF CONTRACTOR OR AGENT: [signature] DATE: 3-7-94

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

GW-1 REVISED 2/90

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

Gate City Trucking
MW-3

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY	
Quad. No.	Serial No.
Lat.	Long. / Pc
Minor Basin	
Basin Code	
Header Ent.	GW-1 Ent.

DRILLING CONTRACTOR: SAEDACCO

DRILLER REGISTRATION NUMBER: 1021

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: Greensboro, N.C.
   6301 Burnt Poplar Road
   (Road, Community, or Subdivision and Lot No.)
   County: Guilford
2. OWNER: Walter L. Hannah, Trustee
   ADDRESS: PO Box 3463 (Street or Route No.)
   Greensboro, NC 27402 (City or Town / State / Zip Code)
3. DATE DRILLED: 5-21-93 USE OF WELL: monitoring
4. TOTAL DEPTH: 14' CUTTINGS COLLECTED: ☒ Yes ☐ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 11 FT. ☐ above ☒ below TOP OF CASING.
   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST: N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	4	0	2"	SCH 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	2	0	Portland	Pour

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	14	4	2"	0.010 in.	PVC

13. GRAVEL PACK:

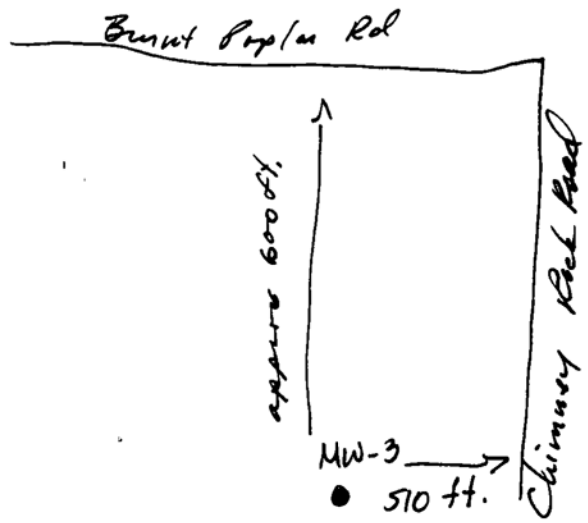
	Depth From	Depth To	Size	Material
	14	3	20-60	Sand

14. REMARKS: Bentonite seal 3-2

Depth From	Depth To	DRILLING LOG Formation Description
0	8	Red silty Clay
8	14	Tan silty Clay

If additional space is needed use back of form.

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



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

SIGNATURE OF CONTRACTOR OR AGENT: [signature] DATE: 3-7-94

GW-1 REVISED 2/90

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

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

Gate City Trucking
MW-4

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY	
Quad. No.	Serial No.
Lat.	Long. / Pc
Minor Basin	
Basin Code	
Header Ent.	GW-1 Ent.

DRILLING CONTRACTOR: SAEDACCO

DRILLER REGISTRATION NUMBER: 1021

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: Greensboro, N.C.
   6301 Burnt Poplar Road
   (Road, Community, or Subdivision and Lot No.)
   County: Guilford
2. OWNER: Walter L. Hannah, Trustee
   ADDRESS: PO Box 3463 (Street or Route No.)
   Greensboro, N.C. 27402 (City or Town / State / Zip Code)
3. DATE DRILLED: 9-2-93 USE OF WELL: monitoring
4. TOTAL DEPTH: 14' CUTTINGS COLLECTED: [X] Yes [ ] No
5. DOES WELL REPLACE EXISTING WELL? [ ] Yes [X] No
6. STATIC WATER LEVEL: 11 FT. [ ] above [X] below TOP OF CASING.
   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST: N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	4	0	2"	SCH 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	2	0	Portland	Pour

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	14	4	2"	0.010 in.	PVC

13. GRAVEL PACK:

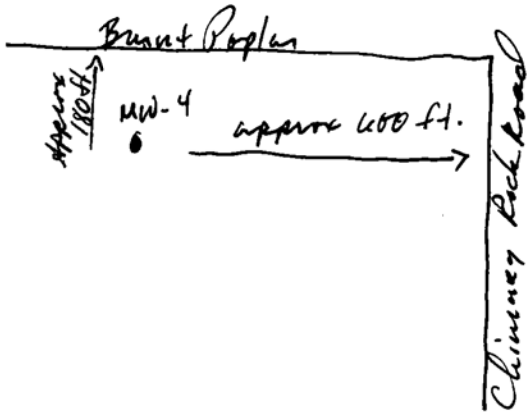
	Depth From	Depth To	Size	Material
	14	3	20-60	Sand

14. REMARKS: Bentonite seal 3-2"

Depth From	Depth To	DRILLING LOG Formation Description
0	14	Red silty Clay

If additional space is needed use back of form.

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



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

SIGNATURE OF CONTRACTOR OR AGENT: [signature] DATE: 3-7-94

GW-1 REVISED 2/90

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

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

Gate City Trucking
MW-5

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY	
Quad. No.	Serial No.
Lat.	Long. / Pc
Minor Basin	
Basin Code	
Header Ent.	GW-1 Ent.

DRILLING CONTRACTOR: SAEDACCO

DRILLER REGISTRATION NUMBER: 1021

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: Greensboro, N.C.
   6301 Burnt Poplar Road
   (Road, Community, or Subdivision and Lot No.)
   County: Guilford
2. OWNER: Walter L. Hannah, Trustee
   ADDRESS: PO Box 3463 (Street or Route No.)
   Greensboro, N.C. 27402 (City or Town / State / Zip Code)
3. DATE DRILLED: 9-2-93 USE OF WELL: monitoring
4. TOTAL DEPTH: 14' CUTTINGS COLLECTED: [X] Yes [ ] No
5. DOES WELL REPLACE EXISTING WELL? [ ] Yes [X] No
6. STATIC WATER LEVEL: 9.0 FT. [ ] above [X] below TOP OF CASING.
   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST: N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	4	0	2"	SCH 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	2	0	Portland	PVC

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	14	4	2"	0.010 in.	PVC

13. GRAVEL PACK:

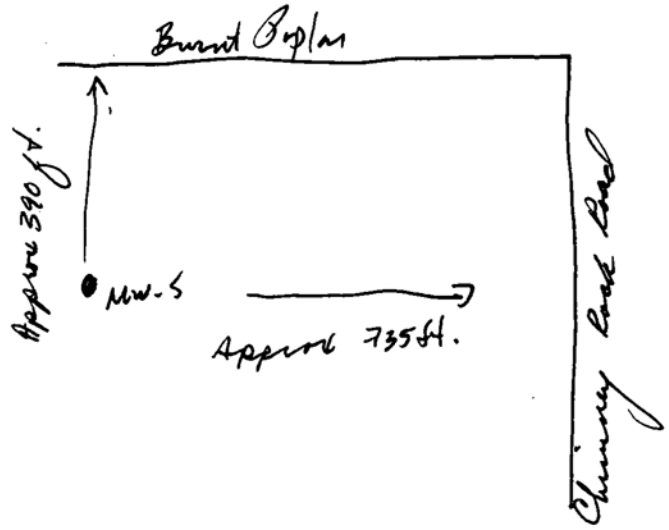
	Depth From	Depth To	Size	Material
	14	3	20-60	Sand

14. REMARKS: Bentonite seal 3-2'

DRILLING LOG	
Depth From	Depth To	Formation Description
0	8	Red Silty Clay
8	14	Tan silty Clay

If additional space is needed use back of form.

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



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

SIGNATURE OF CONTRACTOR OR AGENT: [signature] DATE: 3-7-94

GW-1 REVISED 2/90

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

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

Gate City Trucking
MW-6

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY	
Quad. No.	Serial No.
Lat.	Long. / Pc
Minor Basin	
Basin Code	
Header Ent.	GW-1 Ent.

DRILLING CONTRACTOR: SAEDACCO

DRILLER REGISTRATION NUMBER: 1021

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: Greensboro, N.C. County: Guilford
   6301 Burnt Poplar Road
   (Road, Community, or Subdivision and Lot No.)
2. OWNER: Walter L. Hannah, Trustee
   ADDRESS: PO Box 3463 (Street or Route No.)
   Greensboro, N.C. 27402 (City or Town / State / Zip Code)
3. DATE DRILLED: 9-2-93 USE OF WELL: monitoring
4. TOTAL DEPTH: 14 CUTTINGS COLLECTED: ☒ Yes ☐ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 12 FT. ☐ above ☒ below TOP OF CASING.
   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST: N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	4	0	2"	SCH 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	2	0	Portland	Pour

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	14	4	2"	0.010 in.	PVC

13. GRAVEL PACK:

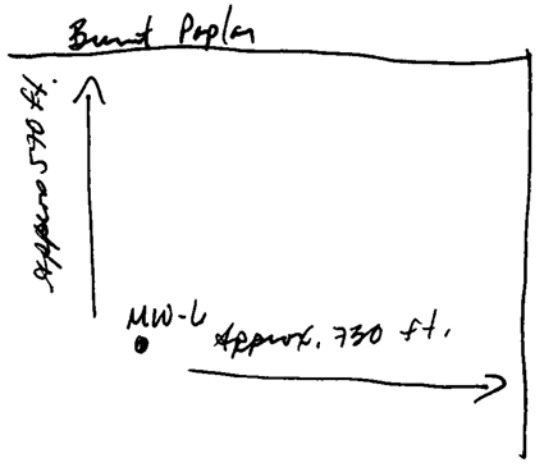
	Depth From	Depth To	Size	Material
	14	3	20-60	Sand

14. REMARKS: Bentonite seal 2-3'

Depth From	Depth To	DRILLING LOG Formation Description
0	8	Red silty Clay
8	14	Tan silty Clay

If additional space is needed use back of form.

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



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

SIGNATURE OF CONTRACTOR OR AGENT: [signature] DATE: 3-7-94

GW-1 REVISED 2/90

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

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

Gate City Trucking
VEW-1

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY	
Quad. No.	Serial No.
Lat.	Long. / Pc
Minor Basin	
Basin Code	
Header Ent.	GW-1 Ent.

DRILLING CONTRACTOR: Bill Clayton

DRILLER REGISTRATION NUMBER: 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: Greensboro, N.C. County: Guilford
   6301 Burnt Poplar Road
   (Road, Community, or Subdivision and Lot No.)
2. OWNER: Walter L. Hannah, Trustee
   ADDRESS: PO Box 3463 (Street or Route No.)
   Greensboro, N.C. 27402 (City or Town / State / Zip Code)
3. DATE DRILLED: 9-7-93 9-8-93 USE OF WELL: monitoring
4. TOTAL DEPTH: 61' CUTTINGS COLLECTED: [X] Yes [ ] No
5. DOES WELL REPLACE EXISTING WELL? [ ] Yes [X] No
6. STATIC WATER LEVEL: 11.0 FT. [ ] above [X] below TOP OF CASING.
   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST: N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

From	To	Diameter	Wall Thickness or Weight/Ft.	Material
51	51	2"	SCH 40	PVC

11. GROUT:

From	To	Material	Method
40	0	Portland	Pour

12. SCREEN:

From	To	Diameter	Slot Size	Material
61	51	2"	0.010 in.	PVC

13. GRAVEL PACK:

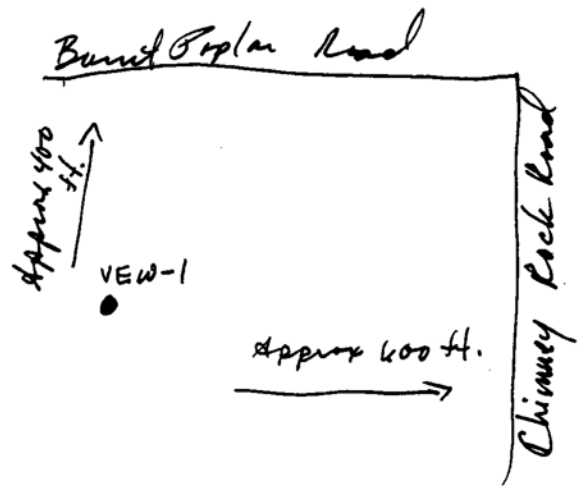
From	To	Size	Material
61	45	20-60	Sand

14. REMARKS: Bentonite seal 40'-50'

Depth From	Depth To	DRILLING LOG Formation Description
0-51		Red Tan silty Clays
51-61		Bedrock

If additional space is needed use back of form.

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



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

H. Burt Brown — SIGNATURE OF CONTRACTOR OR AGENT
3-7-94 — DATE

GW-1 REVISED 2/90

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

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
CHARLOTTE OFFICE
Carolina Business Center
2848 I-85 South, Suite H
Charlotte, North Carolina 28208

MONITOR WELL GAUGE REPORT

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
RALEIGH OFFICE
P.O. BOX 13505
Research Triangle Park, North Carolina 27709

Project Name/Location: GATE CITY Truck Repair (Address) GREENSBORO (City)

Project Manager: Burt Brown Job #: 920278

Date: 9-7-93 Time: 1:45pm Signed: [signature]

WELL NO.		DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICK	REMARKS
MW-1		—	9.54		
MW-2		—	8.73		
MW-3		—	9.44		
MW-4		—	11.40		
MW-5		—	4.73		
MW-6		—	12.12		

Recovery Tank Reading Inches of Liquid:	Magnahelic:	Water Meter:
Inches of Water:	Electric:	Flow Rate:
Gallons of Product:	LEL:	
Tank Size:	TOTAL VOLUME BAILED:	

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
CHARLOTTE OFFICE
Carolina Business Center
2848 I-85 South, Suite H
Charlotte, North Carolina 28208

MONITOR WELL GAUGE REPORT

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
RALEIGH OFFICE
P.O. BOX 13505
Research Triangle Park, North Carolina 27709

Project Name/Location: Gate City Truck Repair
Address City

Project Manager: Burt Brown Job #:

Date: 9-21-93 Time: Signed: Mike Lawrence

WELL NO.	Total Depth	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICK	REMARKS
MW-1	19.00		10.00		
MW-2	14.00		11.23		
MW-3	14.00		11.00		
MW-4	14.00		11.37		
MW-5	14.00		9.00		
MW-6	14.00		12.59		
DMW-1	60.00		11.82		

Recovery Tank Reading Inches of Liquid:	Magnahelic:	Water Meter:
Inches of Water:	Electric:	Flow Rate:
Gallons of Product:	LEL:	
Tank Size:	TOTAL VOLUME BAILED: Ø	

SHIELD ENVIRONMENTAL ASSOCIATES, INC.
QUALITY ASSURANCE - QUALITY CONTROL
PROCEDURES

John M. Brown, Chief Operating Officer

Rev. 3/92

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I. PRELIMINARY ACTIVITIES

I. 1. INTRODUCTION

Prior to any drilling activities, visit and inspect the site. This will enable the project manager to effectively plan the field work phase of the project. Prior to making the site visit, ask the client whether a scaled site map of the location to be drilled currently exists. If so, obtain one prior to visiting the site. If not, prepare one during the initial site visit.

I. 2. PREPARE A SITE SKETCH

a. Show locations of roads, overhead lines, developed areas, and other potential obstructions.

b. Show locations of underground storage tanks (note tank sizes), product lines and product dispensers.

c. Locate utility manholes and/or valve covers. Common utilities to be located include water, power, gas, telephone, storm sewer and sanitary sewer. Also note apparent electrical conduit connections to signs, light poles, etc. If necessary, using a line locator, locate service lines leading to the building.

d. Consider traffic flow in relation to probable drilling rig setup. If traffic flow will continue during drilling activities, consider possible ways to restrict public access while maintaining smooth traffic flow.

e. Designate an auger decontamination area and temporary soil storage area for soils generated during drilling activities. If possible, locate the auger decontamination area near a water spigot.

I. 3. LOCATE PUBLIC UTILITIES

a. Contact the public utilities' location service prior to drilling activities. Inquire whether service lines are located as part of the service, and if so, specify that service lines be painted.

b. Obtain location service plans from utility companies as needed.

I. 4. PREPARE HEALTH AND SAFETY PLAN (Site Specific)

a. Fill out site specific Health and Safety Plan on forms provided by the Shield Health and Safety Director.

b. Pay particular attention to the location of the nearest emergency facilities (e.g. Medical Center, Fire Department, etc.).

c. **This plan must be read, understood and signed by all personnel prior to working on the site.**

d. Update the plan as more information becomes available during assessment activities.

I. 5. EQUIPMENT CHECKS

a. Inspect, calibrate and/or test all field equipment prior to mobilizing to the project site, and immediately prior to use each day.

b. Maintain all field equipment in good working condition and clean and decontaminate as necessary.

c. Specific test/calibration instructions for the various field equipment are located in Appendix B.

I. 6. PURCHASE ORDERS NUMBERS

Obtain Purchase Order numbers for all laboratory analytical work, subcontracted drilling, and other project related expenditures prior to performance of services.

II. SOIL SAMPLING PROCEDURES

II. 1. INTRODUCTION

Soil samples are generally collected by one of two methods: 1) by split spoon sampling in conjunction with standard penetration testing in accordance with ASTM D-1586, or 2) by Shelby tube, whereby the sampling device is forced into the soil at specified intervals. All site supervision, borehole logging and soil sampling will be performed by an on-site qualified geologist, engineer or scientist.

Soil sampling is most often performed using a truck-mounted rotary power auger system equipped with 8 or 11 inch O.D. continuous flight hollow stem augers. Soil sampling depth and

sampling intervals are usually specified by the client. If no specification has been made, collect the initial sample at a depth of 2 feet below grade level (BGL), the second sample at 5 feet BGL and at intervals of 5 feet thereafter, until auger refusal is met, maximum depth specified is achieved or the capabilities of the power auger system are exceeded.

All persons collecting and handling the soil samples must wear disposable latex gloves.

II. 2. PREPARATION FOR SAMPLING

Perform the following steps prior to arrival at the job site:

a. Prepare labels that identify the project name, project number, project location, assigned sample collector and borehole number. Prepare three labels PER SAMPLING INTERVAL: one label should be attached to the plastic ziplock bag and two labels should be attached to the sampling jars to identify the sample. The labels placed onto the sampling jars should partly overlap the lid and sample jar, forming a tamper seal over the jar and lid.

b. Prepare sample containers. If the soil samples are to be tested for total petroleum hydrocarbons (TPH), a minimum of two 4 oz. glass sampling jars with teflon lined lids PER SAMPLING INTERVAL will be needed. If additional analyses are to be performed, prepare specific sample containers and labels as required by the laboratory.

c. Prepare laboratory shipper container (LSC) for sample storage. The LSC should be chilled to approximately 4 degrees centigrade using ice. The ice should be kept in a plastic ziplock soil sample bag that will not allow water to come in contact with the sample containers. Vermiculite or foam can be placed in the cooler in order to cushion sample containers, thereby minimizing the chance for breakage.

d. Prepare Chain-of-Custody form.

e. Prepare field log and/or field book.

II. 3. FIELD PROCEDURES

a. Clean the augers, split spoon samplers and/or Shelby tubes with a steam-cleaner or high pressure washer prior to drilling activities. Allow augers and samplers to dry before proceeding.

b. Locate the sample handling point away from running motors or where discharged vapors and fumes may come in contact with the sample. Place towels, field meters, sample jars and other equipment so that they do not come in contact with soil or other materials that may contaminate the sampled soils. DO NOT place any equipment on the ground unless a ground cloth is used.

c. As the sample is withdrawn from the borehole, all personnel will handle the sample using clean, disposable latex gloves. Immediately upon opening the sample tube, discard the obvious "cave-in" portion of the sample (approximately the top 3 inches.) Next, split the sample lengthwise into two identical halves. One half is to be immediately packed into 4 oz. sample jars with Teflon lined lids. Take care to completely fill the jars, leaving no headspace between the soil sample and the Teflon lined lids. A lithologic description of the replicate sample will be prepared and recorded on the boring log and/or field notebook. Then the replicate sample will be removed from the sampler and placed in a plastic ziplock bag. If the entire sample cannot be placed into the plastic ziplock bag, again replicate the sample by splitting it lengthwise, placing equal halves into separate plastic ziplock bags. Transfer the sample into the plastic ziplock bag in such a manner as to preclude loss of possible volatile organic compounds.

d. Immediately place the previously prepared labels on the soil sampling jars and the plastic ziplock bag. Then place all sample jars into a LSC pre-chilled to approximately 4 degrees centigrade.

e. During the sampling process, collect one duplicate sample for every six sampling locations. Duplicate samples are considered to be two replicates, prepared by dividing the sample into two separate aliquots. Split the sample into equal portions, making both portions representative of the entire sample.

f. After the sample has had sufficient time to disperse volatiles into the headspace of the plastic ziplock bag, perform a scan of the headspace using an organic vapor analyzer (OVA). The field scan is performed by opening a small portion of the plastic ziplock bag and inserting the OVA probe into the headspace of the bag. Take care to prevent soil from entering the OVA probe. Note reading(s) on boring long and/or field book.

g. After completion of the steps outlined above, place all sampling jars that contain soil samples to be laboratory analyzed in the LSC in individual plastic ziplock bags. If any samples are suspected to be highly contaminated, place a small amount of activated charcoal in each ziplock plastic bag. This will help prevent

cross-contamination of samples through diffusion.

II. 4. SPECIAL CONSIDERATIONS

When working in hot weather, avoid handling samples in direct sunlight. Heat and direct sunlight may cause accelerated volatilization of the sample.

II. 5. DECONTAMINATION PROCEDURES

a. The augers MUST BE decontaminated between successive boreholes using a steam-cleaner or high pressure HOT WATER washer. Take particular care to remove soil material from inside hollow-stem augers. Store soil material generated during the cleaning process in the temporary soil stockpile area or in DOT approved 55 gallon drums.

b. Clean the split spoon soil sampler both inside and outside between successive samples with a solution of laboratory grade soap (Alconox) and tap water, rinse with pesticide grade isopropyl alcohol solution, and then rinse with distilled water. The sampler MUST BE allowed to dry between successive samples.

c. If Shelby tubes are used, only clean, unused tubes should be used for individual samples.

d. Always replace the disposable latex gloves worn by the sampler handler(s) between successive samples.

e. Change the sampler cleaning solution between successive borings. If samples appear to be highly contaminated, change the cleaning solution between sampling intervals.

II. 6. TRANSPORTATION OF SAMPLES TO LABORATORY

a. The maximum holding time for samples to be tested for volatile organics is 14 days. Therefore, samples must be delivered to the laboratory and analyzed by the laboratory within this time frame. Consult the laboratory regarding holding times for other constituents to be tested.

b. If the samples are taken directly to the laboratory from the drill site, transport them in the same LSC at a temperature of approximately 4 degrees centigrade.

c. If the samples cannot be taken directly to the lab, take them to the project office. Upon arrival, immediately transfer the sample containers from the LSC to the

assigned refrigerator, pre-cooled to approximately 4 degrees centigrade, until such a time that they can be taken to the laboratory.

d. When the samples are scheduled to be delivered to the lab, transfer them from the refrigerator to a LSC pre-chilled to a temperature of approximately 4 degrees centigrade, where they will remain until they are delivered.

III. MONITORING WELL GAUGING PROCEDURES

III. 1. INTRODUCTION

Well monitoring is necessary to provide information on a) depth to water in the monitoring well, and b) whether liquid phase separated hydrocarbons (PSH) are present. If PSH are present, the thickness of the floating layer must be determined.

III. 2. MEASUREMENT OF WATER LEVELS AND PSH LEVELS

a. Before each gauging event, open the monitoring well and let it stand for approximately 30 minutes to allow the liquid level(s) in the well to stabilize to atmospheric pressure. After the well has stabilized, take an initial measurement of PSH level and/or water level using a clean water level meter or interface probe. Record values on the monitor well gauge report.

b. Clean the interface probe and/or water level meter between each successive well. To clean the equipment, first wash it in a soap solution (Alconox) and distilled water, rinse with a pesticide grade isopropyl alcohol solution, then rinse with distilled water.

c. If PSH are present, purge each well of liquid PSH using a new disposable bailer, and place the liquid in an appropriate container. Lower the bailer gently into the well, so that the bailer does not impact hard on the liquid surface (this may cause emulsification of the hydrocarbon layer). Allow the bailer to fill (approximately 1 foot) and retrieve quickly. Repeat this process until the PSH are removed or until the hydrocarbon thickness cannot be further reduced by bailing. Record the total volume of liquid PSH removed on the field sheet; do not include water.

d. Some monitoring wells accumulate exaggerated thicknesses of PSH. Therefore, it is necessary to allow the wells to recover (24 hours maximum) before rechecking water and PSH levels.

e. After well recovery, gauge the wells a second time using the procedures in III.2.a. above. Do not remove PSH again.

f. The groundwater, PSH and potentiometric surface elevations will be calculated later by the Project Geologist.

IV. WELL PURGING PROCEDURES

IV. 1. INTRODUCTION

Monitoring wells are purged a) both shortly after the well has been constructed and b) prior to groundwater quality sampling. After well construction, the well is thoroughly purged in order to restore the aquifer's hydraulic characteristics, which may have been altered by drilling. Prior to water quality sampling, the well is purged in order to introduce formation water into the well. In both cases, the primary reason for well purging is to evacuate the standing water column from the well. The standing water may not be representative of the actual on-site groundwater quality. Therefore, both the standing water in the casing and in the filter pack must be removed in order to allow more representative formation water to enter the well.

IV. 2. PURGING PROCEDURE (Bailing and Pumping)

a. During the purging procedure, maintain a field sheet for each well.

b. The well is initially checked for the presence of liquid phase separated hydrocarbons (PSH). If PSH are present, follow the procedures outlined in "Monitoring Well Gauging Procedures," page 7.

c. Prior to pumping, the Project Geologist should estimate the approximate well volume, and consider the casing pipe diameter, casing depth and the backfilled annular space diameter, if known (if unknown, assume a 10-inch annulus).

d. Evacuate low-yield wells to dryness once. The pumping rate should be slow, allowing recharge water to slowly enter the well, minimizing the degree of agitation to the formation water, thereby reducing volatilization. For high-yield wells, remove at least three well volumes from the well. At a minimum, note the number of well volumes on the log sheet. Note more detailed information if available.

e. Purge the well using either a disposable bailer or a pump. The pumping method

is preferred since it is much faster than the bailing method.

1. Pump Method

Remove the water by means of a disposable hose extending to the bottom of the well casing. Water is continuously drawn from the bottom of the well until the well is dry, or until an appropriate volume of water has been removed. Take care not to introduce dirty hoses into the well. Drain hoses thoroughly between successive wells and dispose of them.

2. Bailing Method

Remove the water utilizing a clean, disposable bailer with a bottom ball check valve. Lower the bailer into the well by means of a string, and bring the water to the surface. Allow the bailer to drop to the bottom of the well each time in order to evacuate the well from the bottom. Replace the bailer and string between each successive well.

IV. 3. DECONTAMINATION PROCEDURES

a. Disposable hoses must be changed between wells.

b. Clean the bailer (if not disposable) with a soap solution (Alconox), rinse with isopropyl alcohol, and then rinse with distilled water.

c. Change the bailer line between each successive well. Do not let the bailer touch the ground before or during the purging process.

IV. 4. GENERAL CONSIDERATIONS

The cleaning solution and distilled water are contained in plastic jugs. If the cleaning solution is poured into a bucket for use in cleaning the equipment, thoroughly clean the bucket with the solution prior to use at the next well location.

V. WATER SAMPLING PROCEDURES

V.1 INTRODUCTION

Prior to water quality sampling, gauge the well for the presence of PSH. If PSH are present, the client may not request water quality samples to be collected since hydrocarbons are obviously present. If the well is to be sampled, the well MUST be purged (see "Well Purging Procedures"), and allowed to recharge fully. Water sampling must be performed within 24 hours from the time the well was purged.

Disposable latex gloves are to be worn by all persons collecting and handling the samples.

V. 2. PREPARATION FOR SAMPLING

Perform the following steps prior to arrival at the job site:

a. Discuss analytical testing procedures and requirements with the selected laboratory to ensure sufficient number and volume of sample containers are prepared for proper sample analysis. Additionally, discuss holding and turn around times with the laboratory.

b. Obtain a laboratory prepared trip blank and place in the LSC prior to arriving at the project site. This blank is used to monitor possible sample contamination and should be carried with the samples throughout the sampling, storage, shipping and testing process.

c. Prepare labels identifying project, project number, project location, assigned sample collector and monitoring well number. Prepare two labels PER SAMPLE to be used as follows: one label attached to the container identifying the sample; one label placed partly over the lid and partly on the sample container to form a tamper seal over the container lid.

d. Prepare sample containers. Use containers that are clean and unused. If samples are collected for analysis of volatile organics, a minimum of three standard 40-ml glass screw-cap VOA vials with teflon-faced septums will be needed PER SAMPLE LOCATION. If additional analyses are to be performed, prepare specific sample containers as directed by the analytical laboratory.

e. Prepare laboratory shipping container (LSC) for sample storage. Chill the LSC to approximately 4 degrees centigrade using ice. Keep the ice in a plastic ziplock bag that does not allow water to come in contact with the sample containers. Vermiculite or foam may be used to cushion sample containers, thereby minimizing the chance for breakage. An air-space left in a sealed plastic ziplock bag will help protect the sample from breakage.

f. To monitor possible contamination, place a trip blank (obtained from the analytical laboratory or prepared from distilled, de-ionized water) in the LSC prior to placement of any samples. Carry this blank with the samples throughout the sampling, storage, shipping and testing process. Some clients require a rinse blank to be obtained by collecting the rinsate from a clean, disposable bailer.

g. Prepare Chain-of-Custody forms.

h. Prepare field log and/or field book.

V.3 FIELD PROCEDURES

a. Locate the sample handling point away from running motors or where discharged vapors and fumes may come in contact with the sample. Place towels, field meters, sample containers and other equipment so that they do not come into contact with soil or other materials that may contaminate the water samples. DO NOT place any equipment on the ground unless a ground cloth is used.

b. Collect water quality samples using either a disposable bailer with a bottom ball check valve or a peristaltic pump with disposable hoses.

1. Sample Collection Using Bailer

a. If a nondisposable bailer is used, it must be decontaminated prior to sampling. To decontaminate the bailer, first wash in a soap solution (Alconox), rinse with pesticide grade isopropyl alcohol, then rinse with distilled water, in that order. The bailer MUST be allowed to dry before collecting the next sample. Use either a teflon coated string or a new string of inert material. This string will be changed on each individual well. Follow this decontamination procedure between successive sampling points.

b. Gently lower the bailer into the water. Personnel must wear clean, disposable latex gloves during this procedure. Gently lowering the bailer will reduce gassification and maximize the size of the collected sample. After the bailer is lowered into the water, let the sample stabilize for approximately 3 seconds, which will allow the ball valve to close properly. Gently raise the bailer to the surface. It is preferable that the actual water surface be inspected for PSH, so take care not to overfill the bailer.

c. Once the sample has been withdrawn, pour the water into the sample vials in such a manner as to minimize agitation, which may drive off volatile compounds. Do not introduce air into the vial while the sample is being poured. If bubbling occurs as a result of violent pouring, the sample must be poured out and refilled. Fill each vial until there is a meniscus over the lip of the vial. Tighten the screw-top lid with the teflon septum (white toward the sample) on the vial. After the lid is tightened, invert and tap the vial to check for the presence of trapped air bubbles. If bubbles are present, retake the sample.

2. Sample Collection Using a Peristaltic Pump

If a peristaltic pump is used, change the hose between successive sampling points.

a. Submerge the hose such that the upper 12 inches of the standing water column is sampled. Be sure that the hose is submerged deep enough that the system does not take on air. Once the water is pumped to the surface, discharge the sample from the discharge hose directly into the sample vials. Since the pumping rate will be a steady flow, the sample collector must be prepared by having a sufficient number of containers ready to collect the sample as it is discharged.

b. Once the sample is discharged into the vials, handle the sample as described under "Sample Collection Using a Bailer."

c. Immediately note the project number, monitoring well number, sampling interval, date and time on two labels as soon as the sample is placed in the container. Use permanent marker, not pencil, on the labels. Place one label on the container to identify the sample. Place a second label over the lid, overlapping the container, so as to form a tamper seal. Put each sample container in a separate plastic ziplock bag and immediately transfer them to the LSC. An airspace left in the plastic ziplock bag will help cushion the sample containers.

d. Collect one duplicate sample for every six sampling locations during the sampling process. Duplicate samples are considered to be two replicates, and are prepared by dividing the sample into

two separate aliquots. In order to duplicate the sample as closely as possible, prepare six sample vials and fill all six vials from a single bail of sample. Tag alternate vials as the sample and the duplicate (ex: vial 1 is sample, vial 2 is duplicate, vial 3 is sample, vial 4 is duplicate, vial 5 is sample, and vial 6 duplicate).

e. After completion of the steps outlined above, place all sample containers in the LSC in individual plastic ziplock bags. If the samples are suspected to be highly contaminated, place a small amount of activated charcoal in each plastic ziplock bag. This will help prevent cross-contamination of samples through diffusion.

f. Prepare Chain-of-Custody forms.

g. Prepare field log and/or field book.

V. 4. SPECIAL CONSIDERATIONS

When working in hot weather, avoid handling samples in direct sunlight. Heat and direct sunlight may cause accelerated volatization of the sample.

V. 5. TRANSPORTATION OF SAMPLES TO LABORATORY

a. The maximum holding time for samples to be tested for volatile organics is 14 days. Therefore, samples must be delivered to the laboratory and analyzed by the laboratory within this time frame. Consult the laboratory concerning holding times for other constituents to be tested.

b. If the samples are taken directly to the lab from the drill site, they should be held in the same LSC, at a temperature of 4 degrees centigrade.

c. If the samples cannot be taken directly to the lab, deliver them to the office. Upon arrival, transfer the sample containers immediately from the LSC to the assigned refrigerator pre-cooled to 4 degrees centigrade, until such a time that they can be taken to the lab. Keep the trip blank with the samples.

d. When the samples are scheduled to be delivered to the lab, transfer them from the refrigerator to an LSC pre-chilled to a temperature of approximately 4 degrees centigrade until they are delivered to the lab.

VI. CHAIN-OF-CUSTODY PROCEDURES

a. Prior to any sampling activities, the person conducting the sampling must partially complete a chain-of-custody report. **A purchase order number must be obtained for every sampling event per location and recorded on the chain-of-custody form.**

b. Immediately upon obtaining the sample, complete the appropriate lines of the chain-of-custody report for each sample (see attached chain-of-custody). After all samples are collected for each day's activities, note a specific sample number, along with shipment and laboratory testing and reporting specifics.

c. The Chain-of-Custody report shall accompany each sample group in each transport LSC. Received by and relinquished by signatures and specifics shall be completed appropriately. A copy of the chain-of-custody form must be maintained in the Shield sampling logbook.