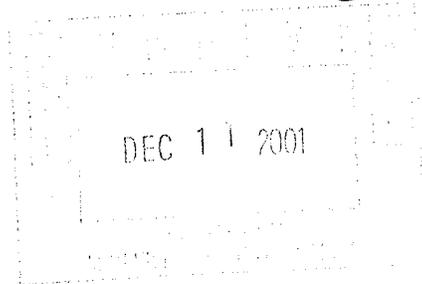


DME (1)



**LIMITED SITE
ASSESSMENT**

**PRESNELL EXXON
SERVICE STATION
HAYWOOD COUNTY**

December, 2001

Prepared by

Alpha Environmental Sciences, Inc.
367 Dellwood Road
Building A, Suite 2
Post Office Box 31
Waynesville, NC 28786
828/452-3449

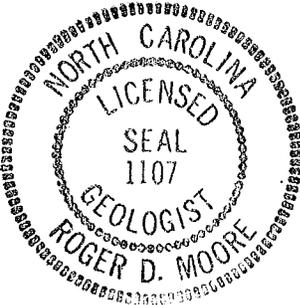
Release Information

The release was detected June 19, 2001 during a tank closure assessment, confirmed by analysis June 27, 2001. The estimated quantity of the release is unknown. The cause seems to be overfilling of the tanks.

LATITUDE: 35° 31' 40" N

LONGITUDE: 83° 57' 35" W

Roger D. Moore
SIGNATURE AND SEAL OF LICENSED GEOLOGIST



35.5276290
82.9597380

B. Risk Characterization

Attached to this report, please note the completed Limited Site Assessment Risk Classification and Land Use Form.

C. RECEPTOR INFORMATION

1. Water Supply Wells

Alpha Environmental Sciences, Inc. performed a surrounding water supply well survey which involved both obtaining tax map listings and aerial photographs of the release area and comparing property ownership with the current Junaluska Sanitary and the Junaluska Assembly water service listing. For properties which were not shown on the water service listing, a physical survey was carried out including attempting to contact the property owner and a visit to the property, if possible, to determine if drinking water wells were still in use at each property. Table B-5 shows the active drinking water wells and is attached in the appendices to this report.

2. Public Water Supplies

Public water is available from the Town of Waynesville through the Lake Junaluska Assembly and the Junaluska Sanitary District, which has lines, which run along Old Clyde Road to Clyde. In addition, service lines also supply water to the Presnell Exxon and other private residences in the area.

3. Surface Water

The nearest surface water is a small tributary to Richland Creek, which flows west, in a buried culvert beneath the Presnell Exxon facility and under Old Clyde Road. Richland Creek flows northeast and at the nearest point is approximately 700 feet from the release location.

A. SITE IDENTIFICATION

REPORT DATE: December 7, 2001

**Presnell Exxon Service Station
Haywood County
Clyde, North Carolina**

Groundwater Incident # Pending

Facility ID # None

UST Owner/Operator

**Mr. Dwight Presnell
Post Office Box 504
Lake Junaluska, North Carolina 28745
(828) 456-8172
Contact – Mr. Dwight Presnell – Owner**

Consultant

**Alpha Environmental Sciences, Inc.
Post Office Box 31
Waynesville, North Carolina 28786**

Contact

**Roger Moore
(828) 452-3449**

Release Information

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4. Wellhead Protection Areas

There are no designated wellhead protection areas within 1500 feet of the source area of this release. See attached file review from the NC DENR Division of Environmental Health.

5. Deep Aquifers of the Coastal Plain

This area does not recharge the deep aquifers of the Coastal Plain province.

6. Subsurface Structures

The release of petroleum product has occurred in both tank pit locations, the gasoline tanks in front of the former Exxon Station and the diesel tank pit on the west side of the station. The sub-surface utilities located at the site include a buried culvert approximately ten (10) to fifteen (15) feet below existing site grade running diagonally across the site carrying a small tributary to Richland Creek. This storm sewer is also carried in a culvert under Old Clyde Road and discharges on the north side of the intersection with NC 209. Sewer lines are located along NC 209 and Old Clyde Road. The sewer lines are located approximately 36 to 42 inches below existing site grade and are located exiting the building about the mid-point along Old Clyde Road. A water line is also buried approximately 24 inches below existing site grade and ties into the main water line along Old Clyde Road. Four (4) drains are located within the former Presnell's Exxon structure. The exact location of discharge of the four-(4) drains is unknown. However, it is likely that it is piped into storm sewer piping below the building. Service pits are located in several of the service bays within the structure; however, they are open service pits and would not be a collection point for explosive vapors. The building and surrounding buildings did not contain any below grade structures such as basements or utility vaults. However, some consideration should be given to the possibility of degradation of PVC piping if carrying water from the water main to the Exxon facility caused by the petroleum. It is unlikely, based on the repaving of the tank pits and excavation of the most contaminated soils, to have any remaining threat of vapors due to the relatively low level of soil contamination at the site.

7. Property Owners and Occupants

Attached in Table B-6 of this report is a listing of the names and addresses for the surrounding property owners around the Presnell Exxon Service Station.

The previous and current usage of the facility was as a small service facility for automotive repairs. Future usage by the new owner of the property will consist of a used car dealership. New asphalt pavement will cover the entire area of the former tank pits. The site has been used as commercial property for several decades and will continue into the future based on the plans of the new owner. It is unlikely that any human exposure will occur with the exception of utility work in the specific area of the former tank pits. The surrounding area will continue to be a mixed usage of both residential and

commercial properties. On-going development in the area along NC 209 north of the intersection with Old Clyde Road as well as other development in the general area will continue to increase the usage of property within 1500 feet. However, the contamination is sealed at the surface by asphalt pavement. Public water is available to the area and the low to intermediate levels of contamination will be unlikely to pose any serious health threat to public health or the surrounding environment.

D. Site Geology and Hydrogeology

The site of the former Presnell Exxon facility is located within the Blue Ridge Physiographic Province of North Carolina. This area is located in the westernmost portion of the state and includes a band of igneous and metamorphic rocks, which have been complexly folded and faulted. Specifically, the site is located within the biotite gneiss of the Coweeta Group. The biotite gneiss is interlayered with amphibolite, contains abundant quartz and aluminum-silicates.

In order to more thoroughly assess the specific geology and hydrogeology at the site, borings were performed using hollow-stem augers and split-spoon sampling for the installation of additional monitoring wells. An existing monitoring well at the site was used for initial sampling and analysis adjacent to the gasoline underground storage tank pit. The specific construction information about this well is unknown; however, the well is screened within the surficial aquifer and the known details about the well are attached to the Well Sample and Purge Data Sheets. Prior to installing the monitoring wells, two (2) Geoprobe[®] borings were advanced, one (1) in each former underground storage tank pit. The borings were advanced in order to collect soil samples for soil analytical testing. Soil borings were also performed at the time of monitoring well installation for monitoring wells 2, 3, 4 and 5. Logs showing the results of our soil sampling are attached in the appendices. The monitoring well construction logs and construction records are also attached. In general, the soils encountered consisted of varying fill soils beneath the asphalt and aggregate base course to depths of one (1) to three (3) feet followed by a weathered grey-green micaceous clayey silt and reddish brown creek alluvium at the area adjacent to the large buried culvert. At other locations on site, the soils consisted of grey-green and white mottled micaceous silty sand to sandy silt, typical of a soil from weathered gneiss. With greater depth as in MW-5, the soils showed more typical saprolite texture and were coarser in grain size.

Upon completion of the monitoring wells, the wells were thoroughly developed, allowed to stabilize and then purged and sampled. The results of the analytical testing are shown in tables attached to this report. Groundwater level measurements were also made in each monitoring well to determine the general groundwater flow direction and hydraulic gradient. In general, the groundwater appears to be moving in a northwest direction toward Richland Creek. Gradient appears to be approximately 0.05 feet per foot.

E. Sampling Results

The soil sample collected from Geoprobe® boring GP-1 in the former gasoline tank pit showed low C9 to C12 aliphatic hydrocarbons, which fell well below the maximum soil contaminant concentration level for soil to groundwater. The sample from Geoprobe® boring GP-2 at the diesel tank pit showed detectable levels of aliphatic and aromatic hydrocarbons. The sample showed C9 to C10 aromatics in excess of the maximum soil contaminant concentration level and additional soil excavation was recommended to try to reach clean soils. For analyses under the volatile organic compounds for soil, none of the detected compounds in the gasoline tank pit or diesel tank pit exceeded the maximum soil contaminant concentrations under the residential levels. The results of the semi-volatile organic analyses for the diesel tank pit sample GP-2 showed no detectable semi-volatile organic constituents under EPA 8270. The analytical results are listed in Table B-3 and locations of the borings are shown in Figure 4.

*GP-2
NO Volatiles
exceeded
residential
MSCC levels
Semi-volatiles
Tables?
B-3?*

Groundwater samples were collected from MW-1 through MW-5. The groundwater sample analytical results are attached in the appendices in Tables 1 and 2. The results and locations of the wells are also shown in Figures 5 and 6. For the former gasoline tank pit, MW-1, 2, 3 and 5 were analyzed for VPH under Massachusetts Department of Environmental Protection Method Volatile Petroleum Hydrocarbons. The sample from MW-1 showed no detectable aliphatic or aromatic hydrocarbons. MW-2 exceeded the C5 to C8 aliphatics and C9 to C22 aromatics. MW-3 exceeded the C5 to C8 aliphatics and C9 to C18 aliphatics as well as the C9 to C22 aromatics. Deep well MW-5 only exceeded the groundwater standards for aromatics C9 to C22. For the diesel tank pit, MW-4 was analyzed for MADEP VPH and EPH. The aliphatics C5 to C8 and C9 to C18 exceeded the Interim Groundwater Standards. Samples from the gasoline tank pit were also analyzed for volatile organic compounds using EPA method 601/602. For the former gasoline underground storage tank pit, all monitoring wells MW-1, 2, 3 and 5, exceeded groundwater standard for Benzene. Monitoring wells 3 and 5 exceeded the standard for Ethylbenzene and MW-3 exceeded the standard for Xylene. MW-4 located adjacent to the former diesel tank pit exceeded the groundwater standards for Benzene, Ethylbenzene and Xylenes. No other volatile organic compounds exceeded the groundwater standards. Semi-volatile analytical results showed Naphthalene as the only compound in excess of the 2L Standards. The results of the groundwater analytical testing are shown on Figures 5 and 6 and listed in Table B-4 in the appendices.

F. Conclusions and Recommendations

Based on our findings in the soil at the diesel tank pit, Alpha Environmental Sciences, Inc. recommended to the owner that additional soil excavation be performed in order to remove the highest levels of soil contamination where the contamination exceeded the maximum soil contaminant concentrations under MADEP method volatile petroleum hydrocarbons in the C9 to C10 aromatic range. Soil excavation was performed and the soils were placed in a dump truck in order to transfer to the soil disposal facility. Soil Technologies in Shelby, North Carolina was selected for the soil disposal. Upon reaching a depth in close proximity to groundwater and at the edge of the excavation where it

appeared that contaminant levels were decreasing, soil samples were collected at two (2) locations in order to verify the current soil contaminant concentrations. The soil analytical results for these samples are also attached in the appendices. The results show that the MADEP VPH C9 – C10 aromatics remaining levels are below the residential maximum soil contaminant concentration. Based on these results, it appears that the site will be eligible for site closure upon closure of the surrounding wells, which are located within 1500 feet of the release. However in lieu of well closure we recommend sampling the two drinking water wells, determine the well construction details and then determine site closure requirements.

The site risk can be reduced to low risk, the soil contamination already meets the requirements for low risk site clean up. Therefore, site closure can be requested and no additional assessment or clean up will be required. This recommendation is based on our understanding of the current and future usage of the property as a used car dealership and based on the analytical results from soil samples and groundwater samples obtained at the site.

G. Free Product Investigation

No free product has been detected either at the time of our initial tank closure assessment work or during the additional Limited Site Assessment work at the site. Therefore, no free product investigation or recovery has been required.

H. Site History

Please see Tables B-1 and B-2 for updated information concerning the site history.

Closing Remarks

This Limited Site Assessment Report and the results found herein are limited to the specific site and the boring locations as described. However, it is a well-known fact that variation in both geology and hydrogeology may occur between boring locations and temporary well sampling locations. It is also a well-known fact that changes in groundwater and subsurface conditions can and do occur through time. These chiefly are regarding groundwater flow velocity, groundwater elevations and changes in groundwater quality at various locations on a given site. The conclusions drawn from the data presented in this report as well as the reporting methodology are in general accordance with the existing standards and accepted hydrogeologic and environmental engineering practices in use at the current time. Should at some point in the future, changes occur which require revision of this report or the conclusions drawn from it, we reserve the right to make the necessary changes given the data showing the changes and conditions and revise the conclusions drawn from the data as may be required.

Limited Site Assessment Risk Classification and Land Use Form

Part 1 - Groundwater/Surface Water/Vapor Impacts

High Risk

1. Has the discharge or release contaminated any water supply well including any used for non-drinking purposes? **NO**
If yes, explain. _____

2. Is a water supply well used for drinking water located within 1000 feet of the source area of the discharge or release? **YES**

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

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

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

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

Intermediate Risk

7. Is a surface water body located within 500 feet of the source area of the discharge or release? **YES**

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

NO

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

If yes, explain. _____

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

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

If yes, explain. _____

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

Part II - Land Use

Property Containing Source Area of Discharge or Release

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

1. Does the property contain one or more primary or secondary residences (permanent or temporary)? **YES**

Explain. The property contains a permanent primary residence.

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

Explain. _____

3. Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? **YES**

Explain. The property contains an inactive service station.

4. Do children visit the property? **NO**

Explain. _____

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

Explain. _____

6. Do pavement, buildings, or other structures cap the contaminated soil? **YES**

Explain. Asphalt covers the tank pit areas.

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

Future usage for the property will be a used car lot and the existing asphalt area will be repaved.

7. What is the zoning status of the property? Residential/Commercial

8. Is the use of the property likely to change in the next 20 years? **NO**
Explain. _____

Property Surrounding Source Area of Discharge or Release

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

11. What is the distance from the source area of the release to the nearest primary or secondary residence (permanent or temporary)? 100 feet

12. What is the distance from the source area of the release to the nearest school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly? Church - 400 feet
Lake Junaluska Dam - Spillway Recreation Area - 800 Feet

13. What is the zoning status of properties in the surrounding area? Residential/Commercial

14. Briefly characterize the use and activities of the land in the surrounding area. The areas surrounding the Presnell's Exxon Station are generally residential with some small commercial businesses. The area is located just below Lake Junaluska on the corner of Highway 209 and Old Clyde Road.

I. Figures

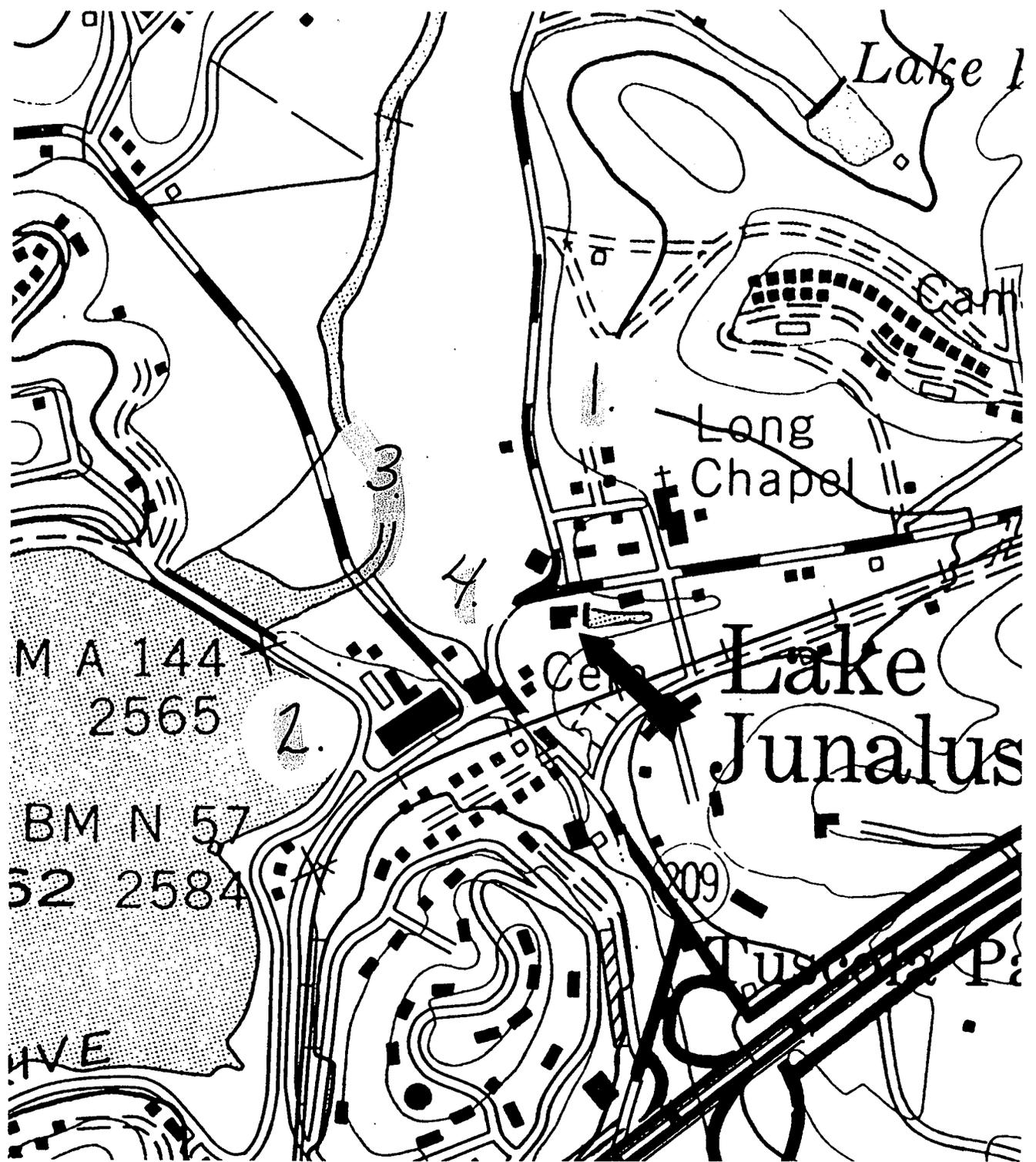


Figure 1

- | | |
|---------------------------------|-------------------|
| 1.) Clyde Reeves | Water Supply Well |
| 2.) Lake Junaluska | Surface Water |
| 3.) Richland Creek | Surface Water |
| 4.) Tributary to Richland Creek | Surface Water |

PRESNELLS EXXON STATION LAKE JUNALUSKA, N.C. RECEPTOR MAP ON USGS QUAD AES #1247.01	
SCALE: 1" = 500'	ALPHA Environmental Sciences, Inc.
DRAWN BY: RDM	
DATE: 11/28/01	FIGURE 1

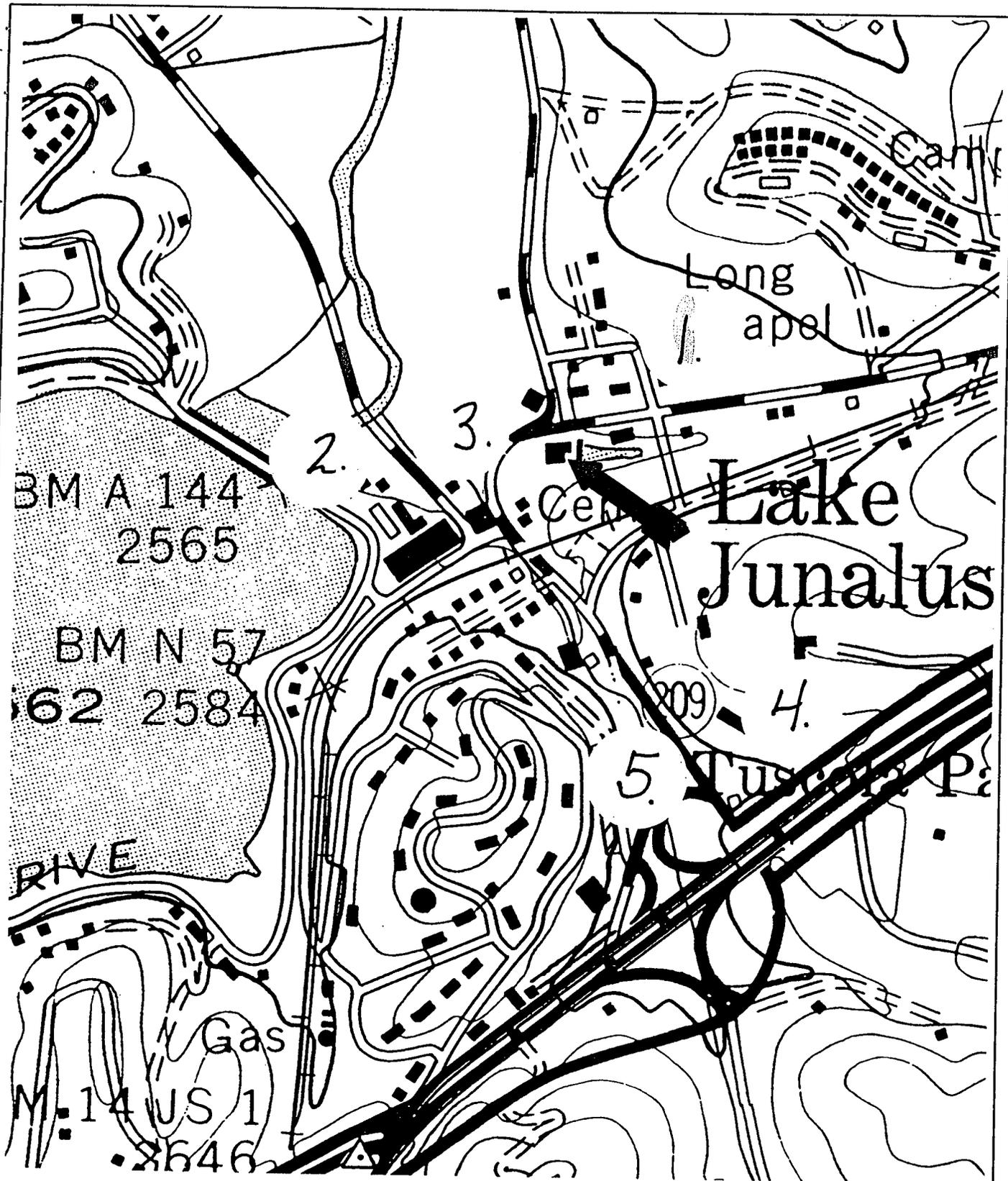
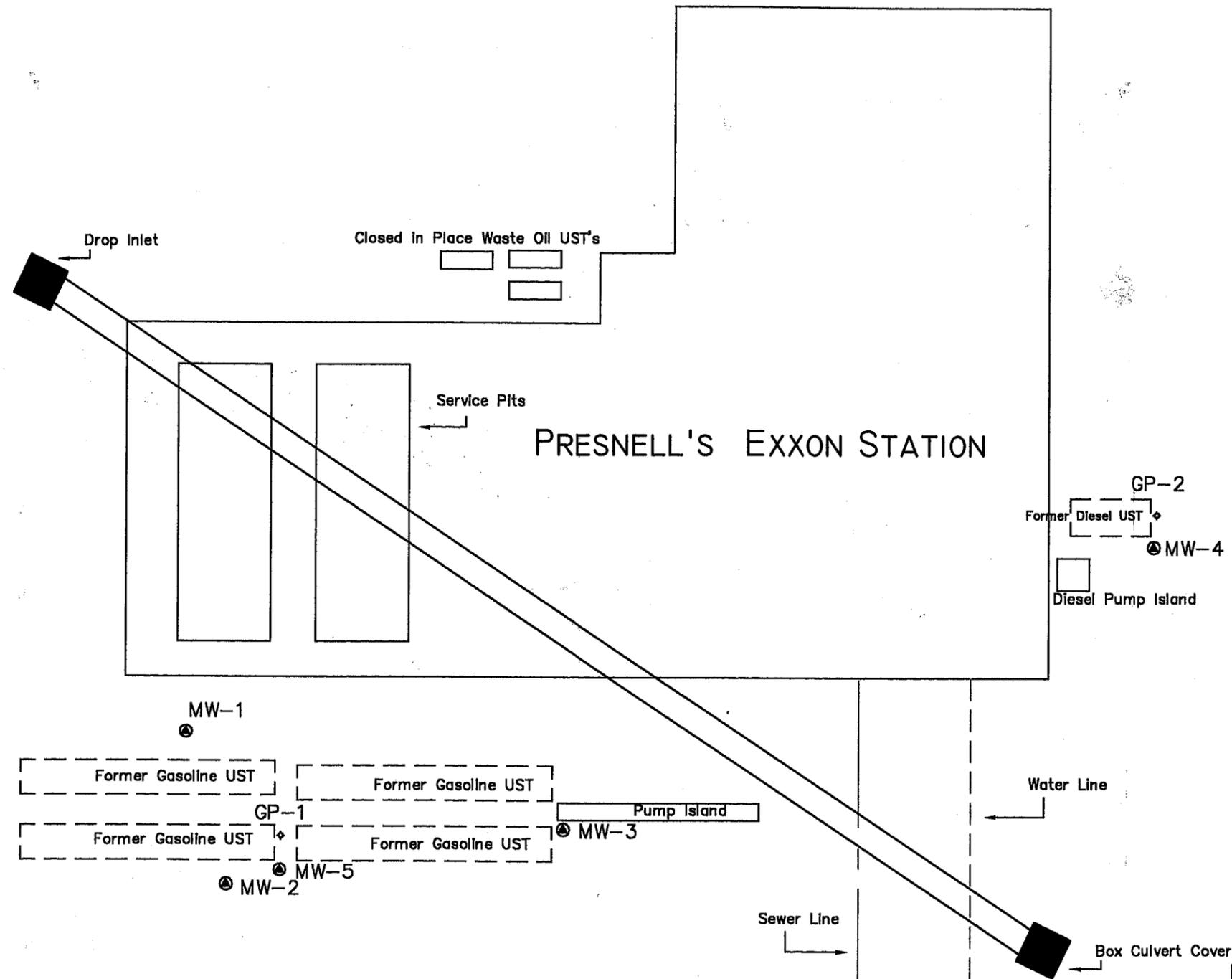


Figure 2

- 1.) Longs Chapel UMC and Daycare
- 2.) Lake Junaluska Recreation Center
- 3.) Commercial Medical Office Buildings
- 4.) Walmart Shopping Center
- 5.) Gem Motel

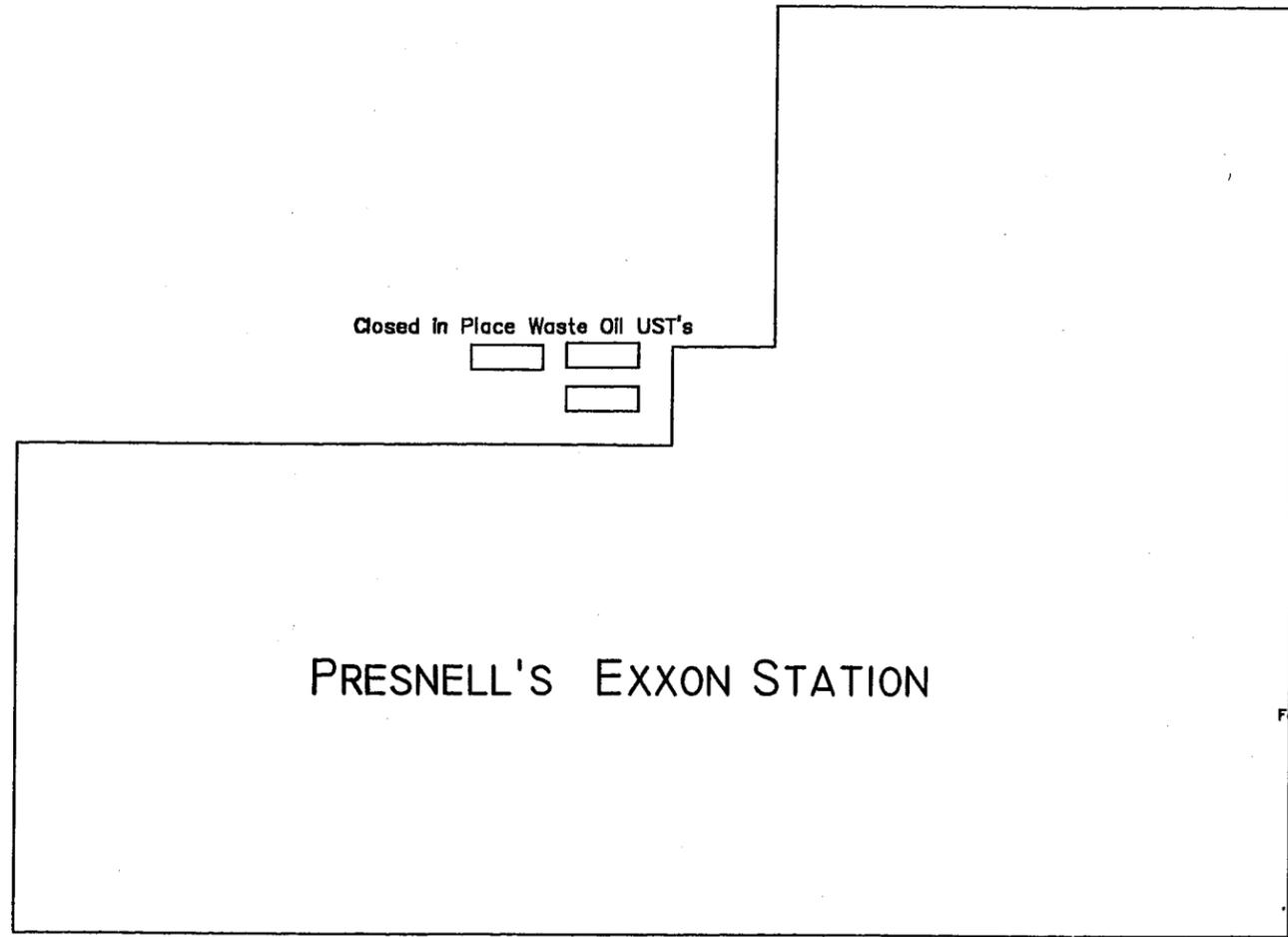
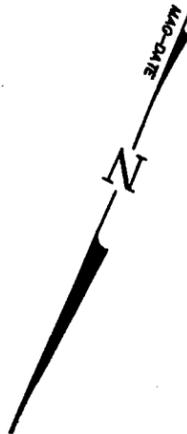
PRESNELLS EXXON STATION LAKE JUNALUSKA, N.C.	
SURROUNDING PROPERTY MAP AES #1247.01	
SCALE: 1" = 500'	ALPHA Environmental Sciences, Inc.
DRAWN BY: RDM	
DATE: 11/28/01	FIGURE 2



LEGEND

- Monitoring Wells
- ◆ Soil Borings

PRESNELLS EXXON LAKE JUNALUSKA, NORTH CAROLINA SITE DIAGRAM/BORING LOCATIONS AES PROJECT #1247.01	
NTS	ALPHA
DRAWN BY: RDM	Environmental Sciences, Inc.
DATE: 11/26/01	FIGURE 3



Soil Analytical Results
Volatile Organic Compounds (EPA 8260)
AES Project #1195.01
 (Results reported in parts per million)

volatiles all OK
 ← MSCC

Detected Analytes	GP-1	GP-2	Residential
	Gasoline Tank Pit	Diesel Tank Pit	
Sample Depth	1-5 feet	1-5 feet	
Benzene	0.1375	0.4400	22
sec-Butylbenzene	ND	0.1867	156
Ethylbenzene	1.219	4.627	1560
Isopropylbenzene	ND	0.2867	1564
Naphthalene	2.788	3.787	63
n-Propylbenzene	0.3875	1.360	156
Toluene	ND	2.667	3200
1,2,4-Trimethylbenzene	4.412	9.467	782
1,3,5-Trimethylbenzene	1.331	3.293	782
Xylenes	4.875	18.85	32,000

Notes: MSCC = Maximum Soil Contaminant Concentration
 ND = Not Detected

MADEP VPH and EPH
AES Project #1195.01
 (Results reported in parts per million)

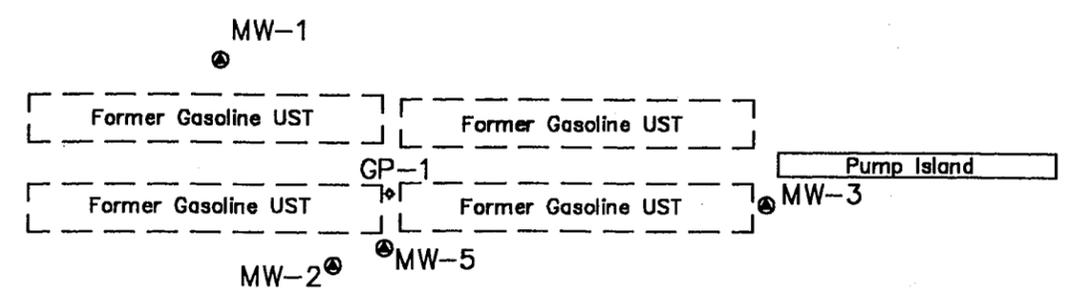
550 VPH C9-C10 above residential

Sample Depth	GP-1	GP-2	MSCC Residential
	Gasoline Tank Pit	Diesel Tank Pit	
1-5 feet	1-5 feet	1-5 feet	
VPH C5-C8 Aliphatics	ND	456.0	939
VPH C9-C12 Aliphatics	6.51	537.0	9386
VPH C9-C10 Aromatics	ND	550.0	469
EPH C9-C18 Aliphatics	NT	ND	9386
EPH C19-C36 Aliphatics	NT	55.9	93,860
EPH C11-C22 Aromatics	NT	ND	469

ND = Not Detected
 Exceeds MSCC Standards
 MSCC = Maximum Soil Contaminant Concentration
 NT = Not Tested

Semi-Volatile Organic Compounds (EPA 8270)
AES Project #1195.01
 (Results reported in parts per million)

EPA 8270	GP-2
Semi-Volatile	Diesel Tank Pit
Constituents	None Detected



LEGEND

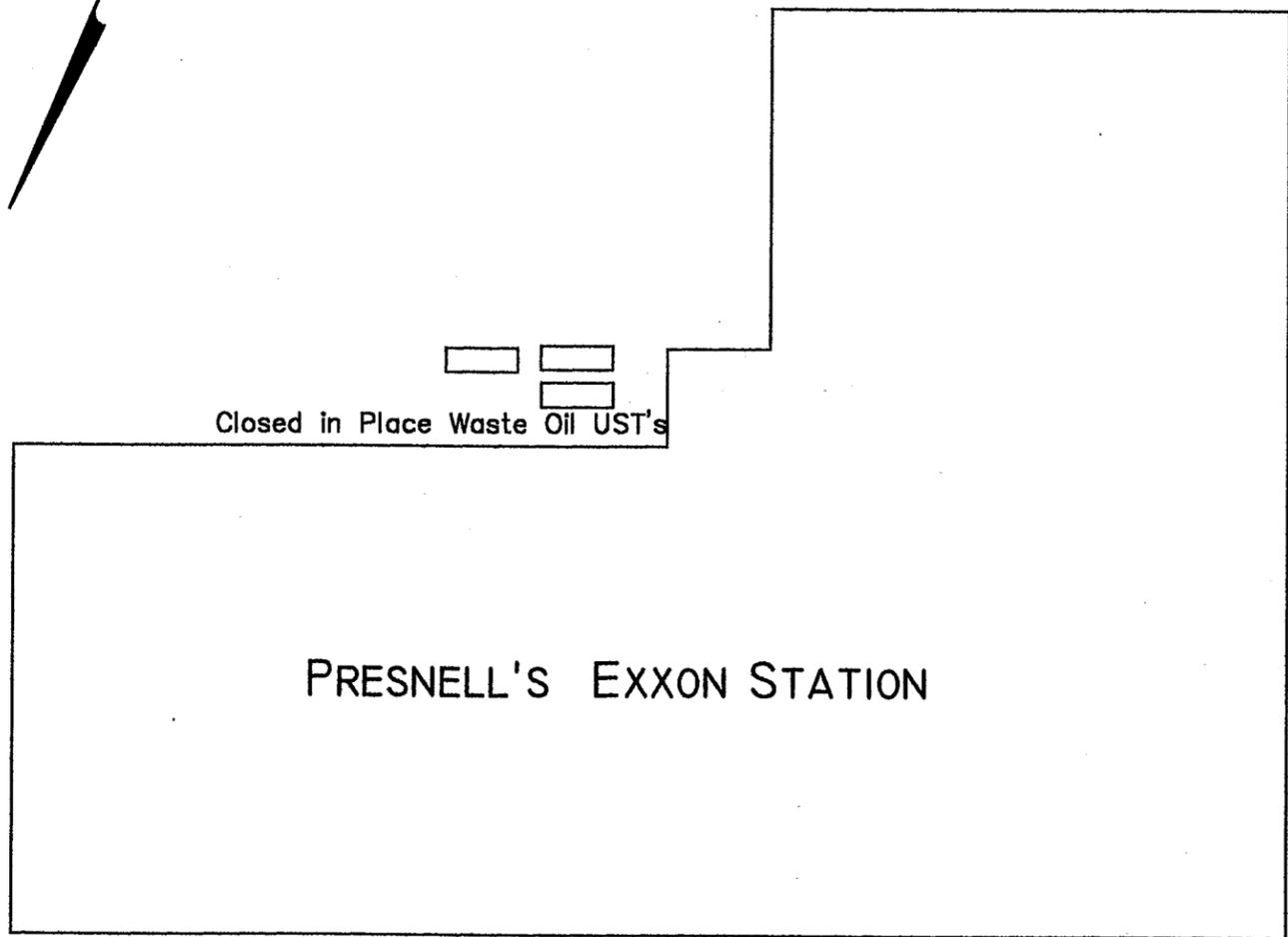
- Monitoring Wells
- ◆ Soil Borings

**PRESNELLS EXXON
 LAKE JUNALUSKA, NORTH CAROLINA**

**Soil Analytical Results
 AES PROJECT #1247.01**

NTS	ALPHA
DRAWN BY: RDM	Environmental Sciences, Inc.
DATE: 11/27/01	FIGURE 4

PPM

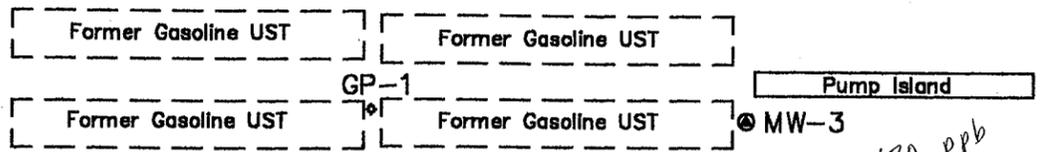


Closed in Place Waste Oil UST's

PRESNELL'S EXXON STATION

GP-2
Former Diesel UST
MW-4
B = 605
E = 1,200
X = 3,210
N = 283

MW-1 B = 15.8



MW-2 B = 9.7
MW-5 B = 9.6
E = 50.2
Chloroform = 13.8

MW-3 B = 730 PPb
E = 1,600
X = 5,170

MADEP VPH/EPH
***EPH performed on sample # MW-4 only
AES PROJECT # 1247.01
(All concentrations reported in parts per million)

Volatile Petroleum Hydrocarbons

Component Name	MW-1	MW-2	MW-3	MW-4	MW-5	GROUNDWATER STANDARD
C6-C8 Aliphatics	ND	0.48	4.92	9.79	0.249	0.249
C9-C12 Aliphatics	ND	0.244	4.85	9.04	0.396	0.396
C9-C10 Aromatics	ND	0.378	7.14	ND	0.51	0.51

Extractable Petroleum Hydrocarbons

C9-C18 Aliphatics				0.842	
C19-C36 Aliphatics				ND	
C11-C22 Aromatics				0.123	

Totaled Concentrations

ALIPHATICS						
C6-C8	ND	0.48	4.92	9.79	0.249	0.42
C9-C12	ND	0.244	4.85	8.82	0.396	4.2
C13-C16	ND			ND		42
AROMATICS						
C9-C10	ND	0.378	7.14	0.123	0.123	0.21

ND- Not Detected (Below Minimum Quantification Limits)
MADEP- Massachusetts Department of Environmental Protection
Groundwater Standards are NCAC 2L
Shaded areas indicate results which exceed groundwater standards

LEAD (Standard Method 3030C)
(All concentrations reported in parts per million)

Sample #	MW-1	MW-2	MW-3	MW-4	MW-5	Groundwater Standard
Lead in parts per million	ND	ND	0.006	NT	0.009	0.015

EPA 601/602 with IPE, MTBE, EDB and Xylenes
(All concentrations reported in parts per million)

Sample #	MW-1	MW-2	MW-3	MW-4	MW-5	Groundwater Standard
Analyte						
Benzene	0.0158	0.0097	0.73	0.605	0.0095	0.001
Toluene	ND	0.0109	ND	0.66	0.022	1
Ethylbenzene	0.0093	0.0215	1.6	1.2	0.0502	0.029
Xylene (total)	0.018	0.0838	5.17	3.21	0.254	0.53
Methyl-t-butyl ether (MTBE)	0.0012	0.0166	0.16	ND	0.0073	0.2
Isopropyl ether	0.0028	0.0106	ND	ND	0.0078	0.07
Chloroform	ND	ND	ND	ND	0.0138	0.00019
Naphthalene	ND	ND	ND	0.283	ND	0.021
Bis(2ethylhexyl)phthalate	ND	ND	ND	0.2	ND	

***** All other constituents were below minimum quantification limits and were not detected
Groundwater Standards are NCAC 2L
ND-Not Detected (Below minimum quantification limits)
Exceeds Groundwater Standards

LEGEND

- Monitoring Wells
- Soil Borings

PRESNELLS EXXON
LAKE JUNALUSKA, NORTH CAROLINA
Groundwater Analytical Results
AES PROJECT #1247.01

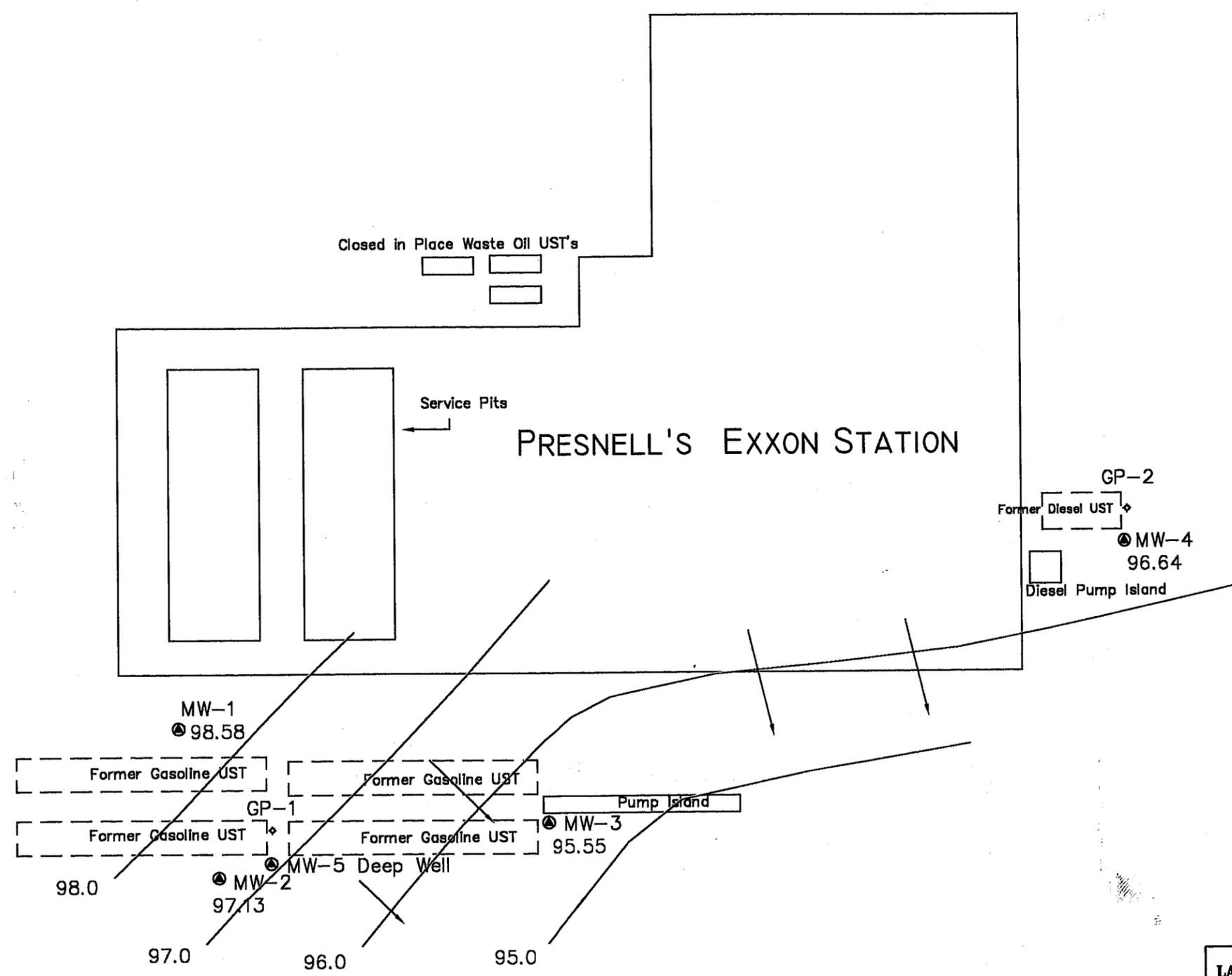
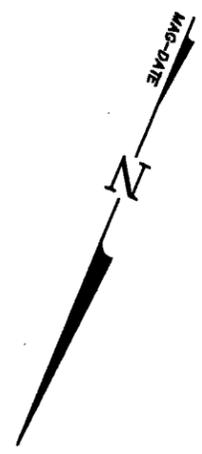
NTS

DRAWN BY: RDM

DATE: 11/01/01

ALPHA
Environmental Sciences, Inc.

FIGURE 5



LEGEND

- 96.64 Groundwater Elevation
- Monitoring Wells
- ◆ Soil Borings

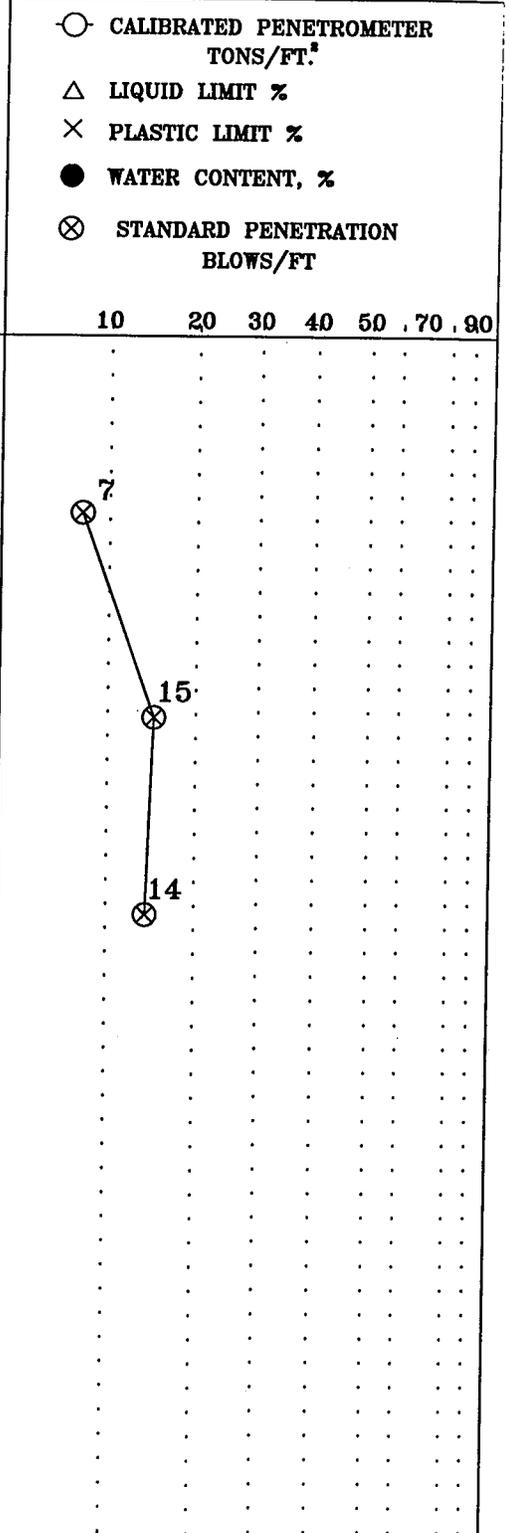
PRESNELLS EXXON LAKE JUNALUSKA, NORTH CAROLINA GROUNDWATER ELEVATIONS/CONTOURS AES PROJECT #1247.01	
NTS	ALPHA
DRAWN BY: RDM	Environmental Sciences, Inc.
DATE: 11/26/01	FIGURE 6

K. Appendices

PROJECT NAME Presnells Exxon	JOB # 1247.01	BORING # MW - 2	SHEET 1 OF 1	ALPHA Environmental Sciences, Inc.
SITE LOCATION LAKE JUNALUSKA, N. C.	DESIGNER			

CLIENT
Mr. Dwight Presnell

DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT.)
0					SURFACE ELEVATION	
					FILL SOIL- Gravel and sand covering Loose grey/green clayey sandy SILT (ML)	
5	s-1	SS	18	18	ALLUVIAL SOIL- Medium dense grey/green silty gravelly SAND (SM)	
10	s-2	SS	18	18	Residual Soil - Brown to White mottled silty micaceous Sand (SM) Saprolite Texture	
15	s-3	SS	18	18	Boring Terminated at 15.0 feet	
20						
25						
30						



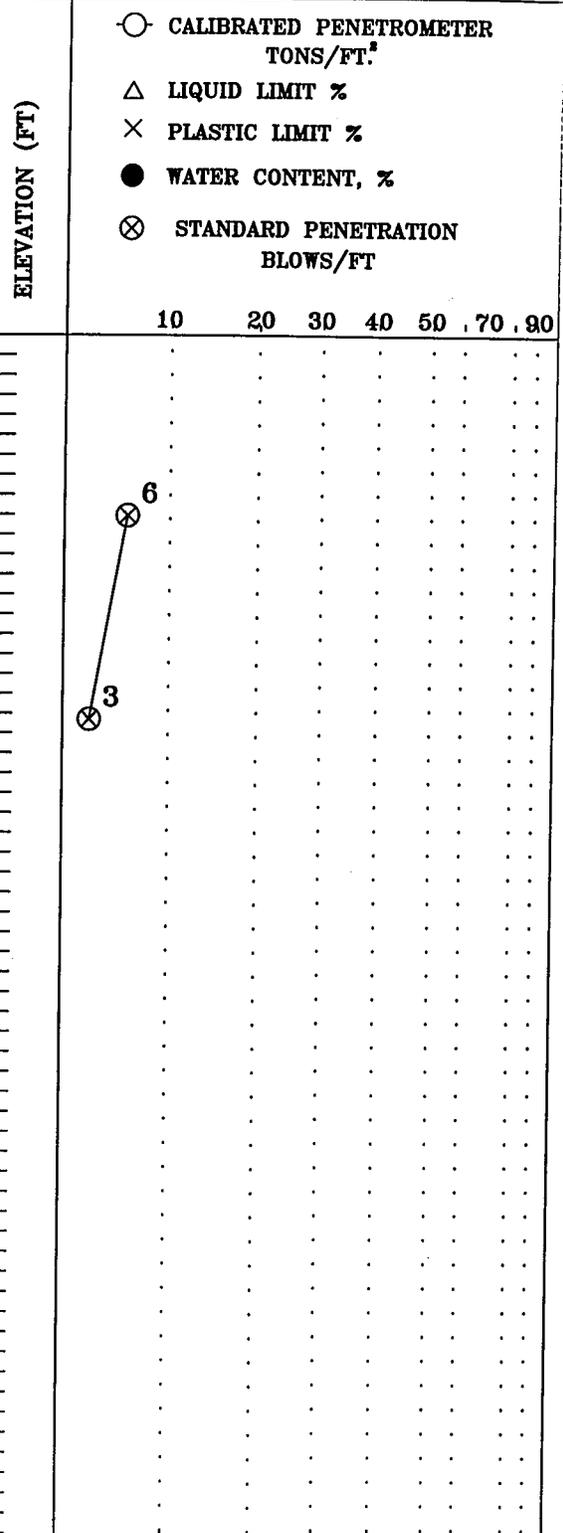
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES, IN-SITU THE TRANSITION MAY BE GRADUAL

WATER LEVEL ● T.O.B.	N.M. ▽	BORING STARTED	06/14/01	TOPSOIL DEPTH
WATER LEVEL ● 24 HRS.	N.M. ▼	BORING COMPLETED	06/14/01	LOGGED BY: RDM
CAVE IN DEPTH ● 24 HRS.	N.A.	RIG Mobile B61 FOREMAN	DW	DRILLING METHOD HSA

PROJECT NAME Presnells Exxon	JOB # 1247.01	BORING # MW - 3	SHEET 1 OF 1	ALPHA Environmental Sciences, Inc.
SITE LOCATION LAKE JUNALUSKA, N. C.	DESIGNER			

CLIENT
Mr. Dwight Presnell

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)
0					SURFACE ELEVATION	
0 - 5					FILL SOIL- Gravel and sand covering Loose grey/green clayey sandy SILT (ML)	
5	S-1	SS	18	18	ALLUVIAL SOIL- Soft grey/green silty gravelly SAND (SM)	
10	S-2	SS	18	18		
10 - 17.5					Sampling Terminated due to Thunderstorm	
17.5 - 30					Boring Terminated at 17.5 feet	



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES, IN-SITU THE TRANSITION MAY BE GRADUAL

WATER LEVEL ● T.O.B.	N.M.	▽	BORING STARTED	06/14/01	TOPSOIL DEPTH
WATER LEVEL ● 24 HRS.	N.M.	▼	BORING COMPLETED	06/14/01	LOGGED BY: RDM
CAVE IN DEPTH ● 24 HRS.	N.A.		RIG Mobile B61 FOREMAN	DW	DRILLING METHOD HSA

PROJECT NAME Presnells Exxon	JOB # 1247.01	BORING # MW - 4	SHEET 1 OF 1	ALPHA Environmental Sciences, Inc.
SITE LOCATION LAKE JUNALUSKA, N. C.		DESIGNER		

CLIENT Mr. Dwight Presnell

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)	<input type="checkbox"/> CALIBRATED PENETROMETER TONS/FT. ² <input type="checkbox"/> LIQUID LIMIT % <input type="checkbox"/> PLASTIC LIMIT % <input type="checkbox"/> WATER CONTENT, % <input type="checkbox"/> STANDARD PENETRATION BLOWS/FT													
					SURFACE ELEVATION		10	20	30	40	50	70	90							
0																				
5	s-1	SS			No Sampling due to Thunderstorm															
10	s-2	SS																		
15																				
20						Boring Terminated at 18.0 feet														
25																				
30																				

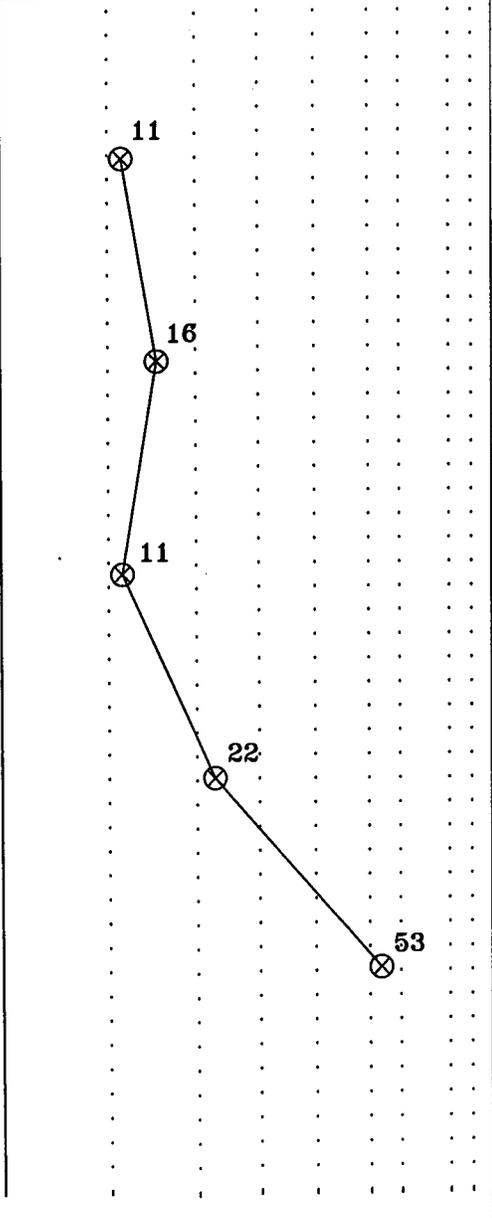
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES, IN-SITU THE TRANSITION MAY BE GRADUAL							
WATER LEVEL ● T.O.B.	N.M.	▽	BORING STARTED	06/14/01	TOPSOIL DEPTH		
WATER LEVEL ● 24 HRS.	N.M.	▼	BORING COMPLETED	06/14/01	LOGGED BY:	RDM	
CAVE IN DEPTH ● 24 HRS.	N.A.		RIG Mobile B61 FOREMAN	DW	DRILLING METHOD	HS/	

PROJECT NAME Presnells Exxon	JOB # 1247.01	BORING # MW - 5	SHEET 1 OF 1	ALPHA Environmental Sciences, Inc.
SITE LOCATION LAKE JUNALUSKA, N. C.	DESIGNER			

CLIENT
Mr. Dwight Presnell

DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	DESCRIPTION OF MATERIAL	ELEVATION (FT)
					SURFACE ELEVATION	
10					No Sampling in the top 10 feet. Well constructed 5 feet from MW-3	
15	s-1	SS	18	18	Grey/green to orange, brown and white mottled sandy Silt to silty sand (ML-SM) Saprolite Texture	
20	s-2	SS	18	18		
25	s-3	SS	18	18		
30	s-4	SS	18	18		
35	s-5	SS	18	18		
					Boring Terminated at 35.0 feet	

- CALIBRATED PENETROMETER TONS/FT.²
- △ LIQUID LIMIT %
- × PLASTIC LIMIT %
- WATER CONTENT, %
- ⊗ STANDARD PENETRATION BLOWS/FT



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES, IN-SITU THE TRANSITION MAY BE GRADUAL

WATER LEVEL ● T.O.B.	N.M.	▽	BORING STARTED	06/14/01	TOPSOIL DEPTH
WATER LEVEL ● 24 HRS.	N.M.	▼	BORING COMPLETED	06/14/01	LOGGED BY: RDM
CAVE IN DEPTH ● 24 HRS.	N.A.		RIG Mobile B61 FOREMAN	DW	DRILLING METHOD H

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

(MW-2)

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Alpha Environmental Sciences STATE WELL CONSTRUCTION
 DRILLER REGISTRATION NUMBER: 2207 PERMIT NUMBER: _____

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

→ Nearest Town: Lake Junaluska County: Haywood
NC 209 / Old Clyde Road

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

2. Owner Dwight Presnell
 Address Post Office Box 504
 (Street or Route No.)

Lake Junaluska NC 28786
 City or Town State Zip Code

3. DATE DRILLED 6/14/01 USE OF WELL Monitoring

4. TOTAL DEPTH 17.5

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL YES NO

7. STATIC WATER LEVEL Below top of Casing: _____ ft.

(Use + if Top of Casing

8. TOP OF CASING IS 0.10 ft. Above Land Surface*

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

9. YIELD (gpm): N/A METHOD OF TEST N/A

10. WATER ZONES (depth): N/A

11. CHLORINATION: Type N/A Amount _____

12. CASING:

From	Depth	To	Diameter	Well Thickness or Weight/Ft.	Material
	<u>0.0</u>	<u>5.5</u>	<u>2</u>	<u>Sch 40</u>	<u>PVC</u>
From	_____	To	_____	_____	_____
From	_____	To	_____	_____	_____

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.)

13. GROUT:

From	Depth	To	Material	Method
	<u>0.0</u>	<u>3.5</u>	<u>Bentonite/Cement Grout</u>	
	<u>3.5</u>	<u>4.5</u>	<u>Bentonite Seal</u>	
From	_____	To	_____	_____

See Location Map

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
	<u>5.5</u>	<u>17.5</u>	<u>2</u>	<u>0.010</u>	<u>PVC</u>
From	_____	To	_____	_____	_____
From	_____	To	_____	_____	_____

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
	<u>4.5</u>	<u>17.5</u>	<u>#2</u>	<u>Washed filter sand</u>
From	_____	To	_____	_____

16. REMARKS:

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

 SIGNATURE OF CONTRACTOR OR AGENT

 DATE

Submit original to Division of Water Quality and Copy to well owner

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

(MW-3)

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Alpha Environmental Sciences STATE WELL CONSTRUCTION
 DRILLER REGISTRATION NUMBER: 2207 PERMIT NUMBER: _____

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

Nearest Town: Lake Junaluska County: Haywood
NC 209 / Old Clyde Road

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

2. Owner Dwight Presnell
 Address Post Office Box 504
 (Street or Route No.)

Lake Junaluska NC 28786
 City or Town State Zip Code

3. DATE DRILLED 6/14/01 USE OF WELL Monitoring

4. TOTAL DEPTH 17.5

5. CUTTINGS COLLECTED YES NO
 6. DOES WELL REPLACE EXISTING WELI YES NO

7. STATIC WATER LEVEL Below top of Casing: 7.83 ft.
 (Use + if Top of Casing)

8. TOP OF CASING IS 0.20 ft. Above Land Surface*

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

9. YIELD (gpm): N/A METHOD OF TEST _____

10. WATER ZONES (depth): Surficial aquifer

11. CHLORINATION: Type N/A Amount _____

12. CASING:

From	Depth	To	Diameter	Well Thickness	Material
				or Weight/Ft.	
	0.0	4.78	Ft. 2	Sch 40	PVC
From		To	Ft.		
From		To	Ft.		

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.)

13. GROUT:

From	Depth	To	Material	Method
	0.0	2.5	Ft. Cement bentonite	
	2.5	3.75	Ft. Bentonite pellets	
From		To	Ft.	

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
	4.78	14.78	Ft. 2	in. 0.010	in. PVC
From		To	Ft.	in.	in.
From		To	Ft.	in.	in.

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
	3.75	14.78	Ft. #2	Filter sand
From		To	Ft.	

16. REMARKS:

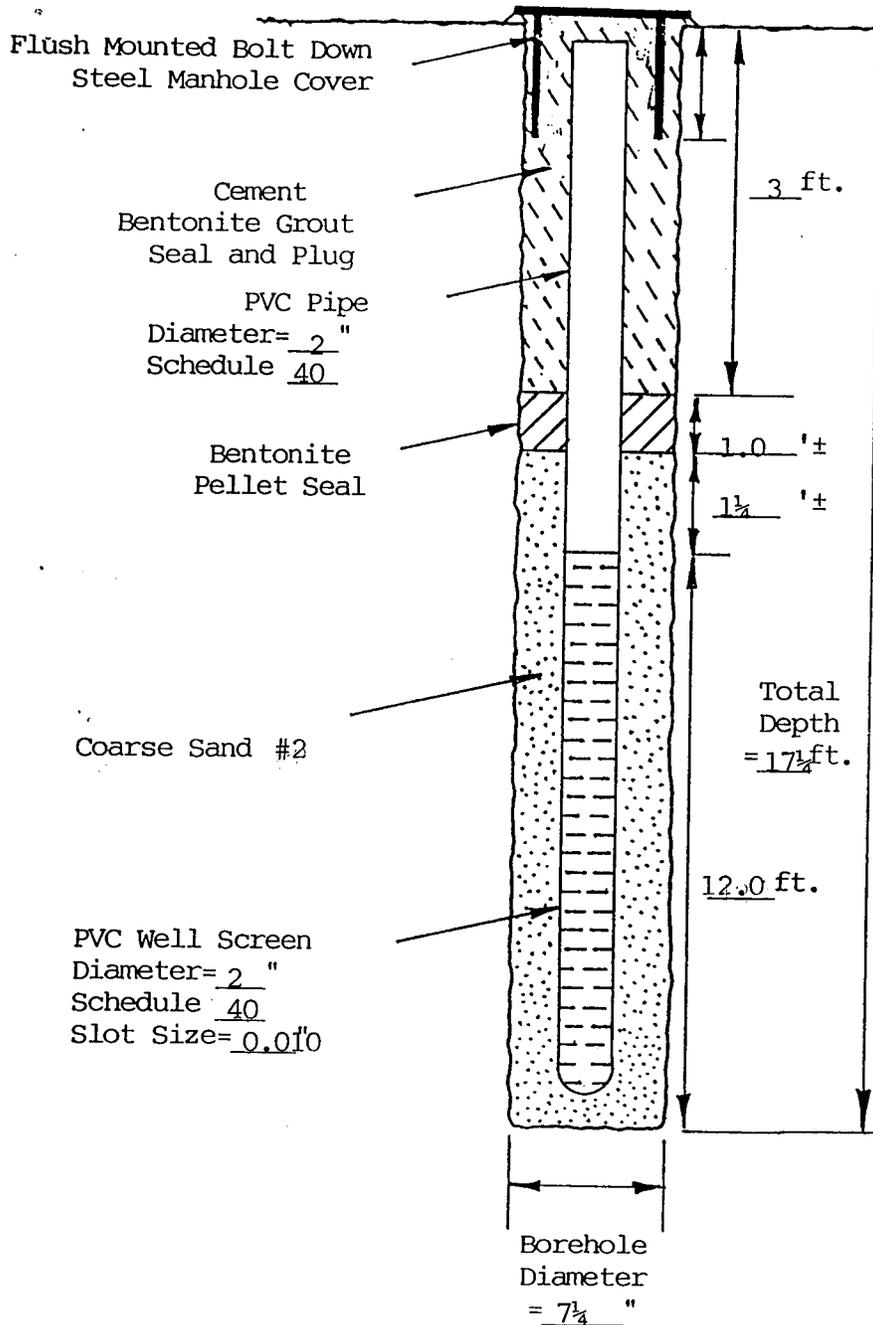
I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT

DATE

Submit original to Division of Water Quality and Copy to well owner

FIELD MONITORING WELL INSTALLATION DIAGRAM FOR WELL NO. MW-4



MONITORING WELL DATA

1. Water Level From Top of PVC
 Date: _____ Depth: (ft) _____

2. Well Developed by _____

Date: _____ Gallons: _____

3. Elevations:
 Ground Surface= _____ ft.
 Top of PVC _____ ft.

Suggested Warning Label

WARNING
 For Monitoring Only
 Not To Be Used For
 Portable Water

Date Installed: 6/14/01 Drill Rig: Mobile B-61 Crew: DW/CD

Presnells Exxon
 Limited Site Assessment

ALPHA
 ENVIRONMENTAL SCIENCES INC.

400 DELLWOOD ROAD • BUILDING A, SUITE 2
 P.O. BOX 31 • WAYNESVILLE, NC 28786

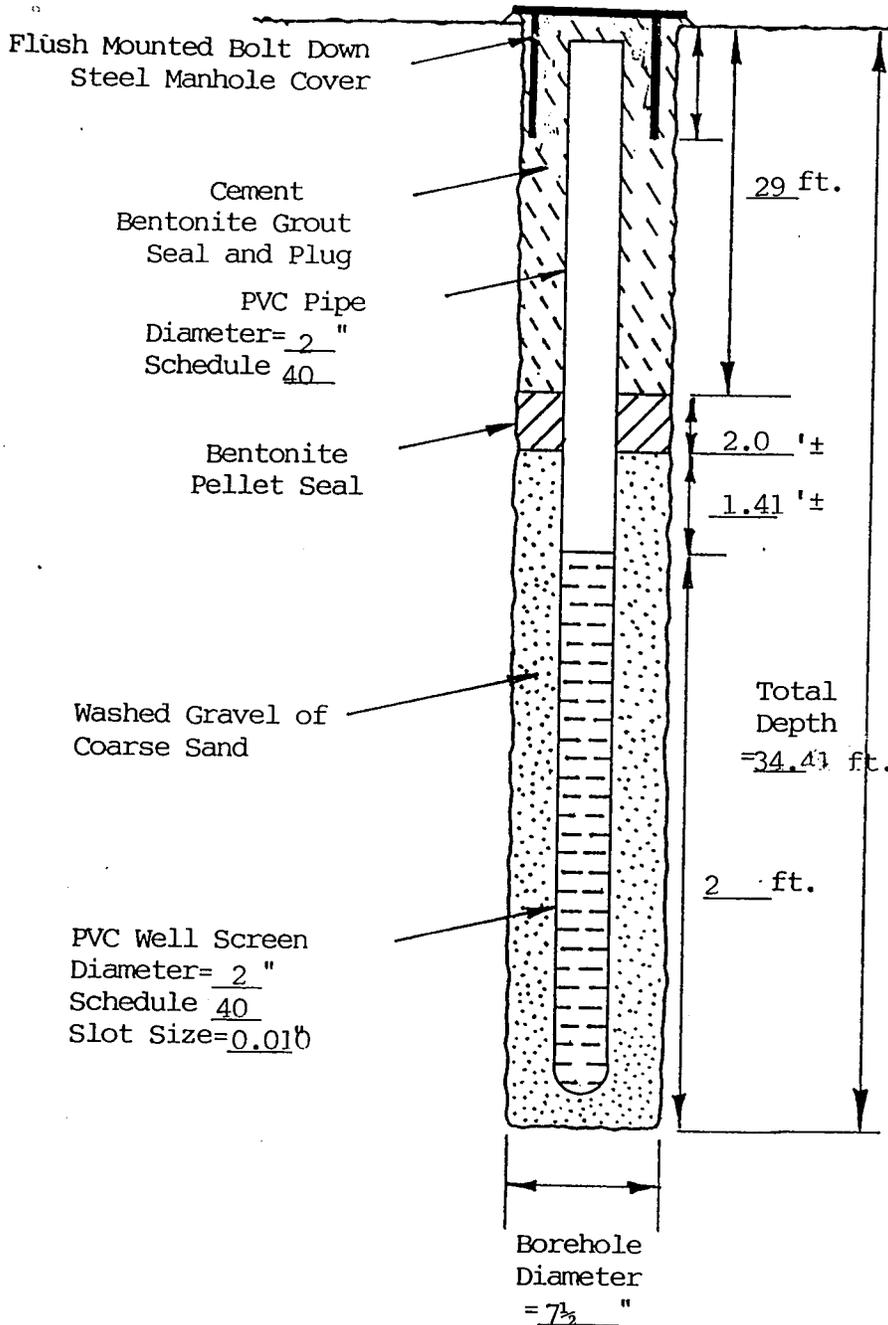
SCALE

Drawn:
 Checked:
 Date:

Job No.

Dwg. No.

FIELD MONITORING WELL INSTALLATION DIAGRAM FOR WELL NO. MW-5



MONITORING WELL DATA

1. Water Level From Top of PVC
 Date: _____ Depth: (ft) _____

2. Well Developed by _____

 Date: _____ Gallons: _____

3. Elevations:
 Ground Surface= _____ ft.
 Top of PVC _____ ft.

Suggested Warning Label

WARNING
 For Monitoring Only
 Not To Be Used For
 Portable Water

Date Installed: 6/14/01 Drill Rig: Mobile B-61 Crew: DW/CD

Presnells Exxon
 Limited Site Assessment

ALPHA
 ENVIRONMENTAL SCIENCES INC.

400 DELLWOOD ROAD • BUILDING A, SUITE 2
 P.O. BOX 31 • WAYNESVILLE, NC 28786

SCALE

Drawn:
 Checked:
 Date:

Job No.

Dwg. No.



**GROUNDWATER MONITOR WELL
PURGE / SAMPLE DATA SHEET**

367 Dellwood Road, Suite A-2
Waynesville, NC 28786

Client/Site Location:
Presnell's Exxon
Clyde, NC

Project #: 1247.01

AES Representative:
BAKER JORDAN

Weather/Temp/Conditions: _____

Date: 6/19/01

Well Number: MW-2

Well Purge Method:
Pump

Well Conditions: Good Fair Poor
Locked: Yes No
Comments: _____

A) Well Depth from Top of Casing:
17.75 ~~20.00~~ feet

B) Water Level from Top of Casing:
7.83 feet

C) Height of Water Column:
(A - B = C)
9.92 feet

D) Volume of Water in Well (in gallons)
(C x X = D) (2" well - X = .17) (4" well - X = .65)
1.68 gallons

E) Purge Volume:
(D x 3 = required volume)
5.0 gallons

(4" well - X = .65)

Purge Start Time: _____

Purge End Time: _____

Sample Time: _____ Military Time

Purge Rate: (gal/min or gal/ball)

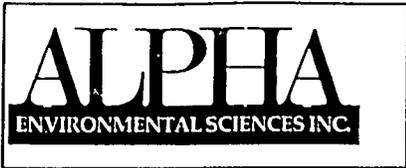
EPA Method: _____

Number of bottles: _____

Field Sampling Data

Volume Purged	Time	Conductivity	pH	Temperature	Turbidity	Dissolved Oxygen

Notes/Remarks: Developed and Sampled Well



**GROUNDWATER MONITOR WELL
PURGE / SAMPLE DATA SHEET**

367 Dellwood Road, Suite A-2
Waynesville, NC 28786

Client/Site Location: Presnell's Exxon

Project #: 1247.01

AES Representative: BAKER JORDAN

Weather/Temp/Conditions: _____

Date: 6/19/01

Well Number: MW-3

Well Purge Method: Pump

Well Conditions: Good Fair Poor
 Locked: Yes No
 Comments: _____

- A) Well Depth from Top of Casing: 14.78 feet
- B) Water Level from Top of Casing: 8.48 feet
- C) Height of Water Column: (A - B = C) 6.3 feet
- D) Volume of Water in Well (in gallons) (C x X = D) (2" well - X = .17) 1.01 gallons
- E) Purge Volume: (D x 3 = required volume) 3.2 gallons

(4" well - X = .65)
 Purge Start Time: _____
 Purge End Time: _____
 Sample Time: _____ Military Time

Purge Rate: (gal/min or gal/bail) _____

EPA Method: _____

Number of bottles: _____

Field Sampling Data

Volume Purged	Time	Conductivity	pH	Temperature	Turbidity	Dissolved Oxygen

Notes/Remarks: Developed Well and Sampled.



**GROUNDWATER MONITOR WELL
PURGE / SAMPLE DATA SHEET**

367 Dellwood Road, Suite A-2
Waynesville, NC 28786

Client/Site Location: Presley Exxon
Chapel NC

Project #: 1247.01

AES Representative: BAKER JORDAN

Weather/Temp/Conditions: _____

Date: 6/19/01

Well Number: MW-4

Well Purge Method: Pump

Well Conditions: Good Fair Poor

Locked: Yes No

Comments: _____

A) Well Depth from Top of Casing:

17.25 feet

B) Water Level from Top of Casing:

8.53 feet

C) Height of Water Column:

(A - B = C)
8.72 feet

D) Volume of Water in Well (in gallons)

(C x X = D) (2" well - X = .17)

1.48 gallons

(4" well - X = .65)

E) Purge Volume:

(D x 3 = required volume)

4.47 gallons

Purge Start Time: _____

Purge End Time: _____

Sample Time: _____ Military Time

Purge Rate: (gal/min or gal/ball)

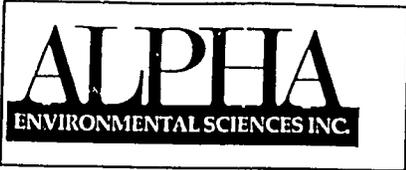
EPA Method: _____

Number of bottles: _____

Field Sampling Data

Volume Purged	Time	Conductivity	pH	Temperature	Turbidity	Dissolved Oxygen

Notes/Remarks: Developed and Sampled Well



GROUNDWATER MONITOR WELL
PURGE / SAMPLE DATA SHEET

367 Dellwood Road, Suite A-2
Waynesville, NC 28786

Client/Site Location: Purnell Exxon
Chapel Rde. Waynesville NC

Project #: 1247.01

AES Representative: BAKER SORIAN

Weather/Temp/Conditions: _____

Date: 6/19/01

Well Number: MW-5

Well Purge Method: Pump

Well Conditions: Good Fair Poor
Locked: Yes No
Comments: _____

A) Well Depth from Top of Casing:
34.41 feet

B) Water Level from Top of Casing:
8.63 feet

C) Height of Water Column:
(A - B = C)
25.78 feet

D) Volume of Water In Well (in gallons)
(C x X = D) (2" well - X = .17) (4" well - X = .65)
4.38 gallons

E) Purge Volume: (D x 3 = required volume)
13.14 gallons

Purge Start Time: _____

Purge End Time: _____

Sample Time: _____ Military Time

Purge Rate: (gal/min or gal/ball)

EPA Method: _____ Number of bottles: _____

Field Sampling Data

Volume Purged	Time	Conductivity	pH	Temperature	Turbidity	Dissolved Oxygen

Notes/Remarks: Developed and Sampled Well.

SoIL

TECHNOLOGIES, INC.

August 31, 2001

Alpha Environmental
P.O. Box 31
Waynesville, NC

Attention: Roger Moore

Subject: Contaminated Soil Received: 8/1/01
Location: 20 Old Clyde Road, Waynesville, NC
Cause of Release: UST

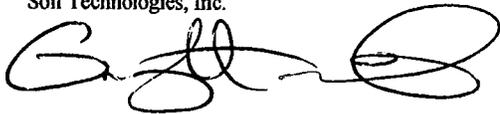
Mr. Moore,

Please find enclosed copies of Manifests, Weight Tickets, and Certificate of Acceptance.
Also please find enclosed the Invoice for all related services provided by Soil Technologies, Inc. for the above referenced project.
Invoices are due within 30 days from the date on the Invoice.

Soil Technologies, Inc. (STI) appreciates the opportunity to provide services to your organization.
If you require any further information or need clarification concerning this invoice, please call me at (704) 477-2315.

Thank you,

Soil Technologies, Inc.



Greg Hamrick
Operations Manager

Enclosures

SOIL DISPOSALS
MANIFESTS

947 Crowder Road
Shelby, NC 28150
Office/Fax (704) 434-5884
Mobile (704) 477-2315
Email: blazesti@bellsouth.net

August 31, 2001

Certificate of Acceptance

Soil Technologies, Inc. (STI), a soil remediation facility located in Lattimore, North Carolina. Accepted the following amount of Non-hazardous, Petroleum Contaminated Soil on the following Date(s):

Amount of Soil:	35.72
Date(s) Received:	8/1/01
Type of Contamination:	Diesel
STI Job Number:	383

The Soil was received from the following location:

DWIGHT PRESNEU
20 OLD CLYDE ROAD
WAYNESVILLE, NC 28786

The soil will be processed and remediated in compliance with all applicable rules and regulation set forth by :

- 1) NORTH CAROLINA DEPARTMENT OF ENVIRONMENT,
AND NATURAL RESOURCES (NCDENR)
- 2) THE FACILITY PERMIT
- 3) THE STATE AUTHORITIES
- 4) AND ANY LOCAL LAWS AND ORDINANCES

Site Address: 947 Crowder Road
Shelby, North Carolina 28150
Mailing Address: Post Office Box 62
Lattimore, North Carolina
28089-0062

Phone (704) 477-2315 • Office / Fax (704) 434-5884

SOIL TECHNOLOGIES, INC.

NON-HAZARDOUS CONTAMINATED SOIL / PETROLEUM CONTAMINATED SOIL MANIFEST

Job No. 383
Test No. 1
Type of Contamination: Diesel Cause of Release: UST

Generator Information: ALPHA ENVIRONMENTAL
PO BOX 31
WAYNESVILLE NC
Telephone No. 828 452 3449

Generator Information: DWIGHT PRESHW
20 OLD CLUDE RD
WAYNESVILLE NC 28786
Telephone No. 828 452 4896

Transporter Information: WILLIAMSON
WAYNESVILLE
Telephone No. _____

Driver's Signature _____ Truck No. 12

Date, Time Weighed: 8/1/01 2:05
Weigh Master Signature: _____

Gross Weight 49200
Tare Weight 21680
Net Weight 27520
Equiv. Tons 13.0

Inspected & Accepted By: **SOIL TECHNOLOGIES, INC.**

By: _____
Date and Time Received: _____

**NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER FACILITY WITHOUT THIS MANIFEST**

White and Yellow copies of this form must be left at SOIL TECHNOLOGIES, INC.
White - Billing • Yellow - Generator • Pink - Trucker

Load 1
From Alpha Date 8/1/01 50439
To SN
Gross Weight 49200 lbs.
Tare Weight 21680 lbs.
Net Weight 27520 lbs.
Price _____
Amt. _____
On _____ Off _____
Weigher GM

Dup. 5201-TRIP 5202
 On Off
 Weigher
 Load 3
 From ALPHA
 Date 8/2/01
 50496
 Gt. 39700 lbs.
 Tare 21680 lbs.
 Net 18020 lbs.
 To ST1
 Amt. 50496
 Price

SOIL TECHNOLOGIES, INC.

Site Address: 947 Crowder Road
 Shelby, North Carolina 28150
 Mailing Address: Post Office Box 62
 Lattimore, North Carolina
 28089-0062
 Phone (704) 477-2315 • Office / Fax (704) 434-5884

**NON-HAZARDOUS CONTAMINATED SOIL /
 PETROLEUM CONTAMINATED SOIL MANIFEST**

Job No. 383
 Manifest No. 3
 Type of Contamination: DISPERSED Cause of Release: UST

Generator Information: ALPHA ENVIRONMENTAL
PO BOX 31
WAYNESVILLE NC 28786
 Telephone No. 828 452 3449

Transporter Information: DWIGHT PRINZEL
20 OLD LYDI ROAD
WAYNESVILLE NC 28786
 Telephone No. 828 452 5896

Transporter Information: WILLIAM W. STRICKLAND
Waynesville NC
 Telephone No. _____

Driver's Signature _____ Truck No. 12

Date, Time Weighed: 8/2/01 11:58
 Weigh Master Signature: _____

Gross Weight 39700
 Tare Weight 21680
 Net Weight 18020
 Equiv. Tons 9.01

Inspected & Accepted By: **SOIL TECHNOLOGIES, INC.**

By: _____
 Date and Time Received: 8/2/01 11:58

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER FACILITY WITHOUT THIS MANIFEST
 White and Yellow copies of this form must be left at SOIL TECHNOLOGIES, INC.
 White - Billing • Yellow - Generator • Pink - Trucker