

03.13-08/20/93-01615

Final

**Remedial Investigation Report  
for Operable Unit No. 2  
(Sites 6, 9, and 82)**

**Marine Corps Base, Camp Lejeune,  
North Carolina**

**Appendices A through D  
Volume 1 of 4**



Prepared For:

**Department of the Navy  
Atlantic Division  
Naval Facilities  
Engineering Command  
Norfolk, Virginia**

Under the

**LANTDIV CLEAN Program**

**Comprehensive Long-Term  
Environmental Action Navy**

8/20/93

## APPENDIX

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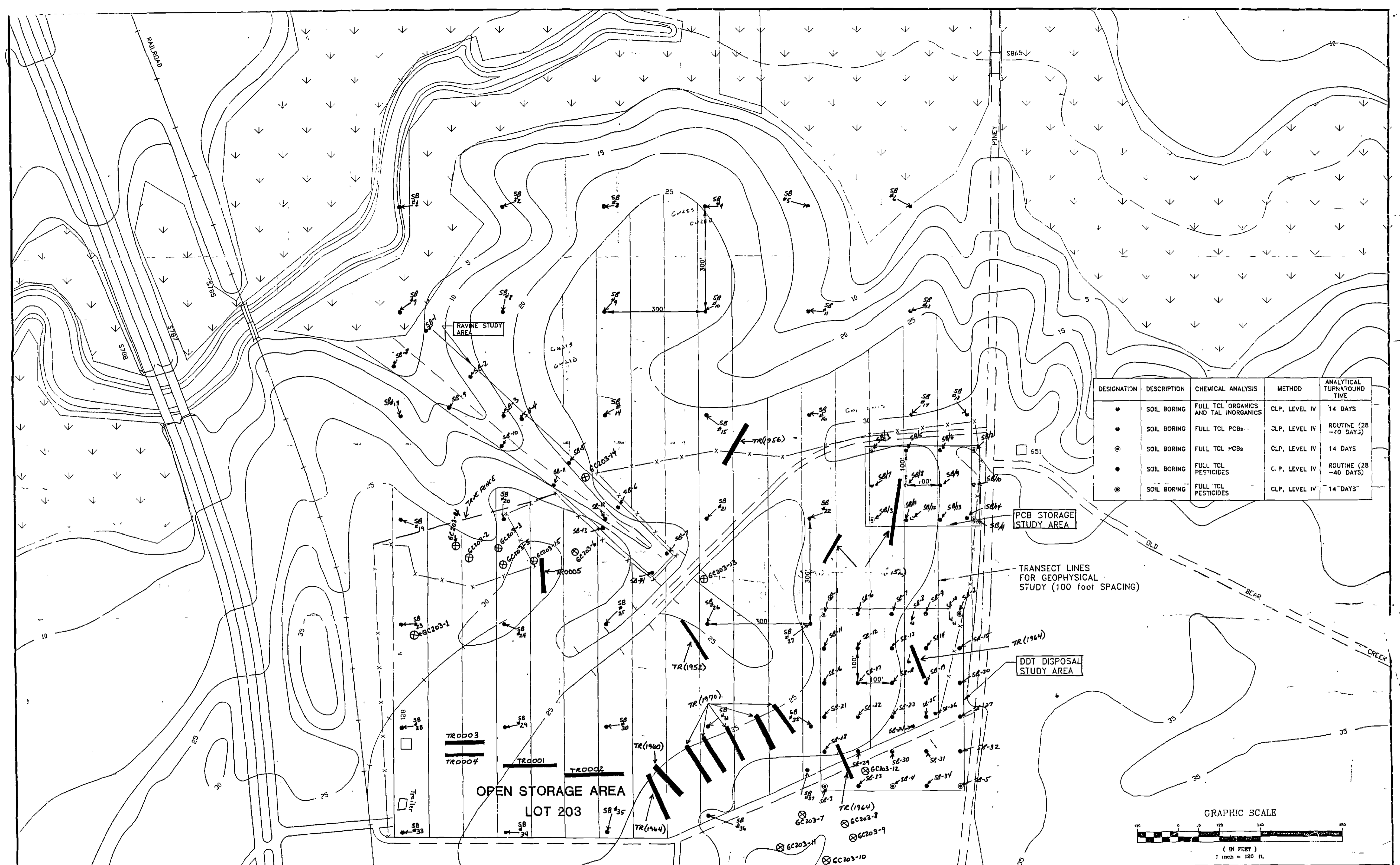
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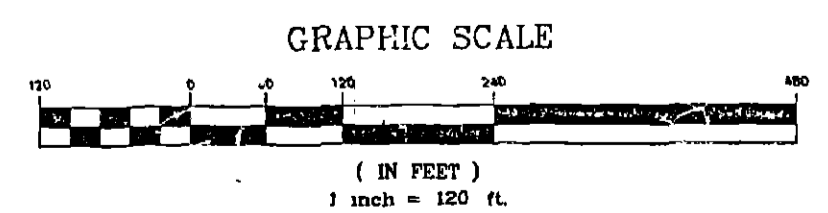
**Appendix A**  
**Geo-Center's UXO Survey**

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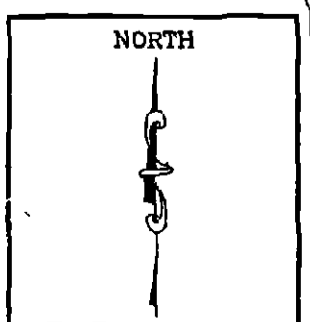


DESIGNATION	DESCRIPTION	CHEMICAL ANALYSIS	METHOD	ANALYTICAL TURNAROUND TIME
●	SOIL BORING	FULL TCL ORGANICS AND TAL INORGANICS	CLP, LEVEL IV	14 DAYS
●	SOIL BORING	FULL TCL PCBs	CLP, LEVEL IV	ROUTINE (28-40 DAYS)
⊙	SOIL BORING	FULL TCL PCBs	CLP, LEVEL IV	14 DAYS
●	SOIL BORING	FULL TCL PESTICIDES	C.P., LEVEL IV	ROUTINE (28-40 DAYS)
⊙	SOIL BORING	FULL TCL PESTICIDES	CLP, LEVEL IV	14 DAYS

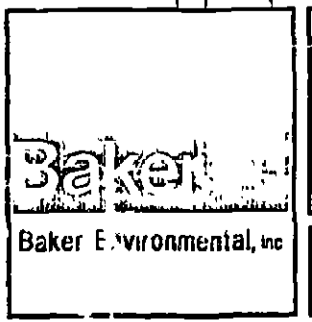


REVISIONS

DATE APR 8, 1992  
 SCALE 1" = 120'  
 DRAWN R.E.L.  
 REVIEWED R.P.W.  
 S.O.# 19024-50-SRN  
 CADD# SED 203



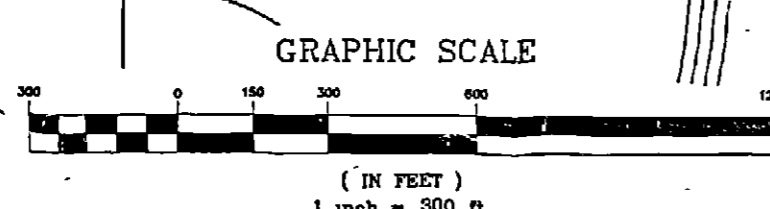
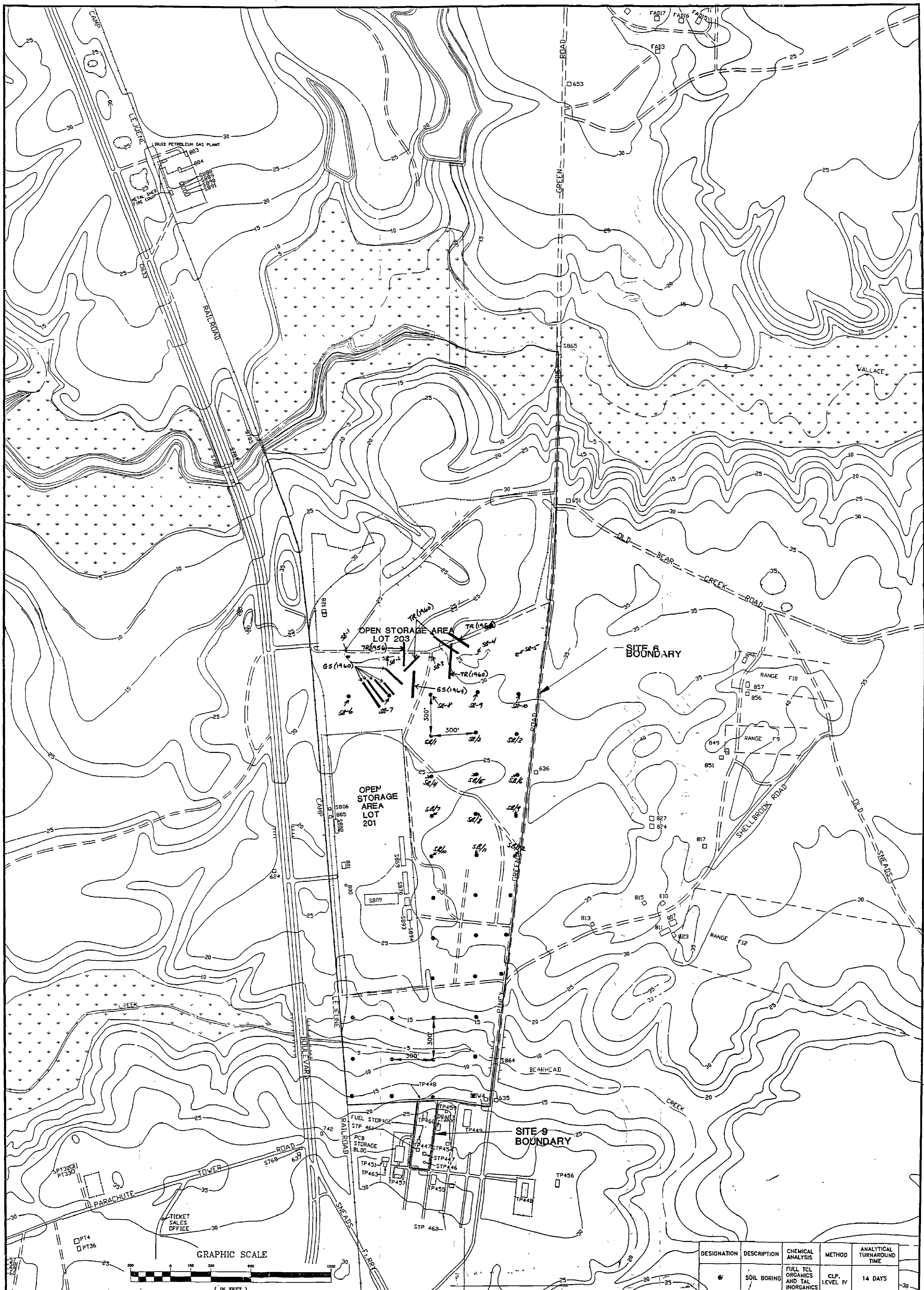
MARINE CORPS BASE  
 CAMP LEJEUNE, NORTH CAROLINA  
 BAKER ENVIRONMENTAL, Inc.  
 Coraopolis, Pennsylvania



SITE 6 - LOT 203  
 SOIL INVESTIGATION  
 SCALE 1" = 120'  
 DATE APRIL 1992

FIGURE No.  
 3-2

SOURCE: LANTDIV, FEBRUARY 1992

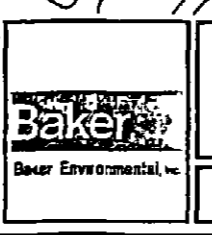


DESIGNATION	DESCRIPTION	CHEMICAL ANALYSIS	METHOD	ANALYTICAL TURNAROUND TIME
6	SOIL BORING	FULL TCL ORGANICS AND TAL INORGANICS	CLP, LEVEL IV	14 DAYS

REVISIONS	DATE: APRIL 8, 1992	NORTH
	SCALE: 1" = 300'	
	DRAWN: R.E.L.	
	REVIEWED: R.P.W.	
	S.O.#: 19024-750-SRN	
	CADD#: 6_WOOD	

MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA

BAKER ENVIRONMENTAL, Inc  
Coraopolis, Pennsylvania



SITE 6 SOIL INVESTIGATION - WOODED AREAS		FIGURE No. 3-3
SCALE: 1" = 300'	DATE: APRIL 1992	

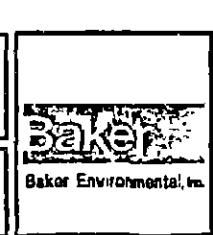
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<p><b>LEGEND</b></p> <p>6GW1 EXISTING MONITORING WELL LOCATION</p> <p>6GW9 PROPOSED SHALLOW AQUIFER MONITORING WELL</p> <p>6GW10 PROPOSED DEEP AQUIFER MONITORING WELL</p> <p>6GW11 REPORTED OR ESTIMATED GROUNDWATER FLOW DIRECTION</p>	<p><b>DATE</b> APRIL 8, 1992</p> <p><b>SCALE</b> 1" = 300'</p> <p><b>DRAWN</b> R.E.L.</p> <p><b>REVIEWED</b> R.P.W.</p> <p><b>S.O.#</b> 19024-70-SRW</p> <p><b>CADD#</b> 6_9_GW</p>	<p><b>SOURCE:</b> LANTDIV, FEBRUARY 1992</p>
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<p><b>FIGURE No</b></p> <p>3-4</p>	<p><b>SCALE</b> 1" = 300'</p>	<p><b>DATE</b> APRIL 1992</p>
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**MARINE CORPS BASE**  
**CAMP LEJEUNE, NORTH CAROLINA**  
**BAKER ENVIRONMENTAL, Inc.**  
 Coraopolis, Pennsylvania



**SITE 6 AND SITE 9**  
**GROUNDWATER INVESTIGATION**



SITE 6  
CAMP LEJEUNE, NC

UXO SURFACE AND SUBSURFACE  
INVESTIGATION AND REMOVAL

# FINAL REMOVAL REPORT

OCTOBER 16, 1992

Presented by  
GEO-CENTERS, INC.



**GEO-CENTERS, INC.**

# FINAL REMOVAL REPORT

## UXO SURFACE AND SUBSURFACE INVESTIGATION AND REMOVAL

Site 6  
Marine Corps Base  
Camp Lejuene, North Carolina

CONTRACT NO. N62470-89-D-4814

Date prepared: October 16, 1992

Signature



Fenoy W. Butler  
GEO-CENTERS, Inc.  
Environmental Program Manager

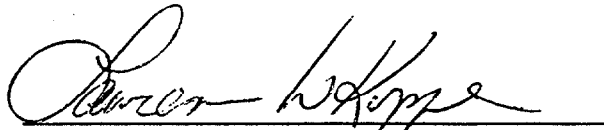
10/16/92  
Date



Dr. Richard H. Beers  
GEO-CENTERS, Inc.  
Safety and Health, Director

10/16/92  
Date

Prepared by:



Lawrence W. Koppe  
GEO-CENTERS, Inc.  
Project Leader

10/16/92  
Date



GEO-CENTERS, INC.

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# SECTION I

## INTRODUCTION

### 1.1 OVERVIEW

Marine Corps Base (MCB) Camp Lejeune (CLEJ) was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List (NPL) effective November 4, 1989 (54 Federal Register 41015, October 4, 1989). Subsequent to this listing, the United States Environmental Protection Agency (EPA), Region IV; the North Carolina Department of Environmental, Health and Natural Resources (DEHNR); and the United States Department of the Navy (DoN); entered into a Federal Facilities Agreement (FFA) for MCB Camp Lejeune (CLEJ).

GEO-CENTERS' Environmental Programs UXO Team was tasked by Baker Environmental, Inc., to assist in the Remedial Investigation/Feasibility Study (RI/FS) to be performed at Camp Lejeune, North Carolina.

This final report contains the results obtained during the performance of the following tasks:

- UXO Surface Reconnaissance
- Subsurface UXO Survey
- Soil Borehole/Monitor Well Survey
- Trenching/Test Pit Excavations for Buried Ordnance/Hazardous Toxic Waste (HTW)/Chemical Surety Material (CSM).

These operations were performed on specific areas within the location known as Site 6, Camp Lejeune, North Carolina. The total site area is approximately 225 acres in size of

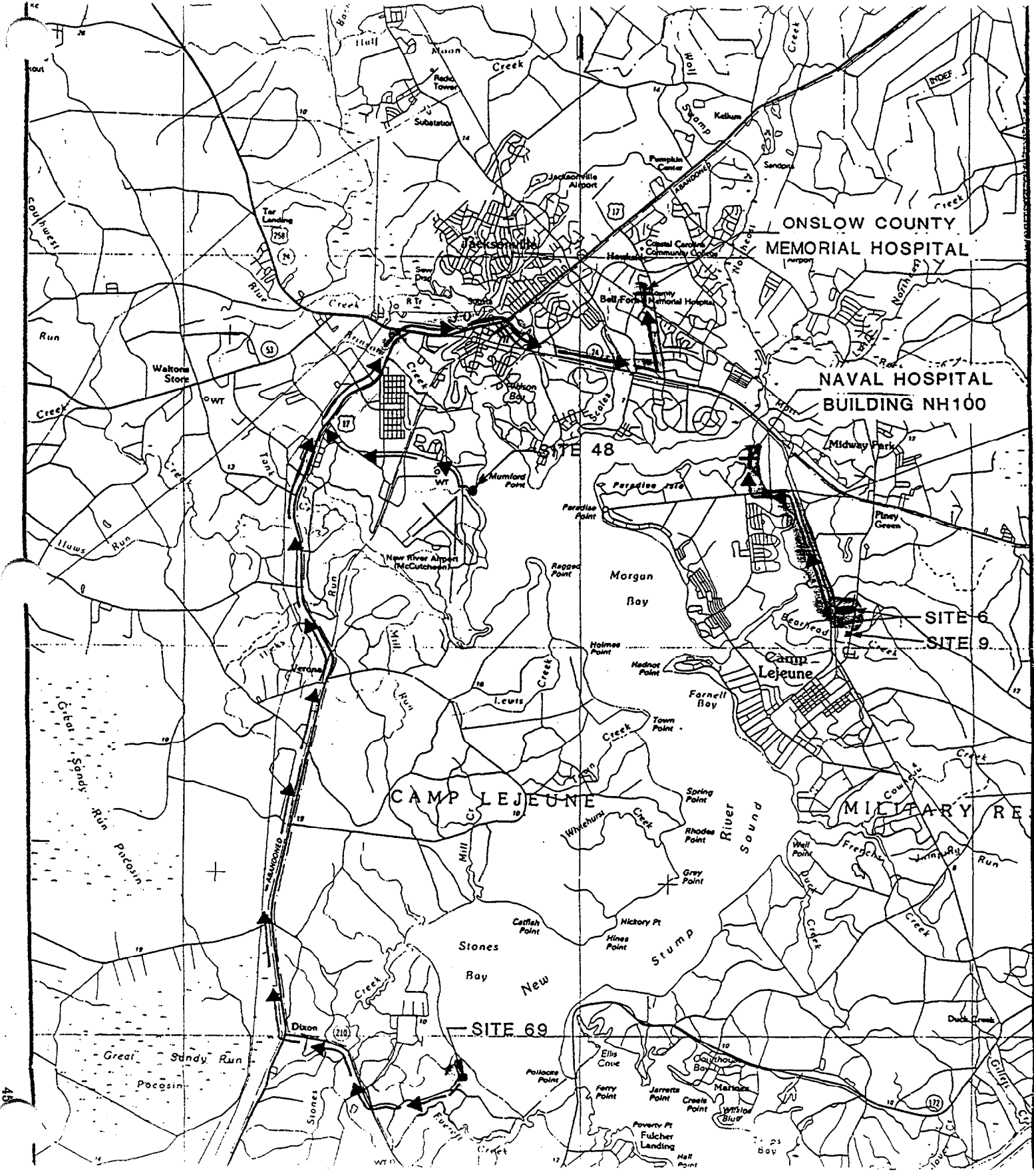
which only 100 acres was required to be surveyed.

## 1.2 BACKGROUND

Site 6 (Figure 1-1) is located approximately 1.75 miles east of New River and 2 miles south of Route 24 on the mainside portion of Camp Lejeune. The site is bordered to the West by Holcomb Boulevard, to the north by Wallace Creek, to the east by Piney Green Road, and to the south by Site 9 (Fire Fighting Training Pit). Site 6 is comprised of two storage lots, Lot 201 and 203, which are surrounded by woodlands. The wooded areas are considered a part of this site for purposes of this RI/FS since debris has been noted throughout.

Storage Lot 201 is located in the west-central portion of the site. This lot, which is actively used to store military equipment (e.g., vehicles, lumber, hydraulic oils and lubricants, non-PCB transformers and other supplies), is bordered by woodlands to the north, Holcomb Boulevard to the west, woodlands to the east, and Bear Head Creek to the South. This lot is approximately 25 acres in size.

Open storage Lot 203 is situated in the northern portion of Site 6, just north of Open Storage Lot 201. Open Storage Lot 203 is bordered to the west by Holcomb Boulevard, the north by Wallace Creek, to the east by Piney Green Road, and to the south by woodlands. This lot is approximately 46 acres in size.



ONSLOW COUNTY  
MEMORIAL HOSPITAL

NAVAL HOSPITAL  
BUILDING NH100

SITE 48

SITE 6

SITE 9

CAMP LEJEUNE

MILITARY RE

SITE 69

48

Woods and open fields make up the remaining area of Site 6. The fields and woodlands are littered throughout (randomly) with debris including rocket casings, and empty and rusted drums. No markings could be noted on any of the drums due to their condition and age. Many of the drums were only fragments as opposed to "whole" drums.

Sections of the area between Lot 203 and Wallace Creek may have been disturbed by excavation activities based on the topography and vegetative cover of these areas. Debris were noted throughout these areas. The debris (casings and drum fragments) were noted to be extruding from the ground surface in some of the areas. The wooded portion of the site encompasses approximately 154 acres, of which 54 acres will require a UXO reconnaissance.

### 1.3 REQUIREMENTS

This UXO investigation portion of the Remediation Investigation/Feasibility Study was divided into two phases. Phase I, consisting of three tasks, commenced on August 21, 1992 and was two weeks in duration. Phase II, the fourth task, was initiated on September 27, 1992 and continued for one week.

The initial task requirements were defined as follows:

#### 1.3.1 UXO Surface Reconnaissance

Perform a UXO surface reconnaissance to search for, identify, and clear all areas to be investigated by Baker Environmental, Inc. Unexploded ordnance on the surface shall be identified as to location, type of UXO, and appropriately flagged or marked. The Camp Lejeune EOD unit shall be notified for subsequent removal/disposal if it is identified by the GEO-CENTERS' UXO team as being hazardous. Ordnance (inert, training, and expended ordnance) that does not constitute a hazard shall also be identified and transported to the predesignated location for further disposition.



### 1.3.2 UXO Geophysical Survey

The original task required a subsurface survey to be performed on up to ten (10) selected areas of one (1) acre each. This selection would be based on the results of the site reconnaissance and the initial results from the Geophysical survey of Lot 203 performed by Baker Environmental. Each selected site would have a subsurface survey conducted. Dependent on the density of contact, an area would then be selected for further exploratory excavation. This excavation would be used to determine the extend of potentially buried ordnance. This task was modified to perform excavations on eight (8) selected sites based on the recommendations contained in the interim report submitted by GEO-CENTERS. These eight sites contained expended ammunition components indicating possible burial sites. Section II further defines the modified work approach and the results.

### 1.3.3 Soil Borehole UXO Survey

This task required the performance of a surface and subsurface UXO survey on approximately 120 soil borehole locations. Several of the borehole locations were located outside of the programmed site reconnaissance area which then required both a surface and subsurface UXO survey. If a potential UXO was located (metallic contact or magnetic anomaly), the surrounding area would continued to be surveyed to determine the closest safe location to the original location to allow for safe drilling. On site, Baker Environmental requested that ten (9) monitoring wells be added to the project. These monitor well sites would require a surface and subsurface UXO survey to be performed.

### 1.3.4 Trenching and Test Pitting

This task required that 10 areas be selected for trenching and test pit excavation (Level "B" PPE required). The selection of the ten sites would be contingent upon the results of the ground penetrating radar (GPR) results. This action was designed to identify the nature of

the buried metal (i.e., drums versus ordnance). These areas are considered potential burial sites containing industrial/hazardous toxic waste and/or chemical agents. The excavations would be backfilled after the extent of the contents are defined by the UXO team and samples have been collected by the Baker Environmental field team.



## SECTION II

### UXO INVESTIGATION/REMOVAL

#### 2.1 OVERVIEW

This Section contains the results of the surface and subsurface geophysical survey and trench/test pitting performed by GEO-CENTERS, Inc. UXO personnel. The initial task requirements were revised by request of Baker Environmental and the changes have been described in each task description. Requested changes did not alter or impact on the safety of personnel on-site and did not require modification of the SHERP.

#### 2.2 TASK 1 - SITE 6 UXO RECONNAISSANCE

To ensure maximum coverage of the area for a surface reconnaissance, a search grid system was established. Where possible, the natural terrain and man-made boundaries (roads, fences, etc.) were utilized as boundary markers. The assigned search area requiring a surface reconnaissance was divided into the following sections:

- Lot 203
- Areas North of Lot 203
- Areas South of Lot 203 and East of Lot 201

The results of this reconnaissance are described in the following paragraphs.

##### 2.2.1 Open Storage Lot 203

A surface UXO reconnaissance/clearance was performed by the GEO-CENTERS' UXO team on Lot 203. A grid search system was established by creating search lanes in a North-South

direction initiating at the south-west corner of Lot 203. The UXO Team's search lanes varied in width as the visibility of the surface area varied. The outermost lane boundary integrity was maintained using wire flags as boundary markers positioned by the "outside" UXO team member. The following paragraphs describe the results of this reconnaissance.

The 46 acres of Lot 203 were surveyed and the following information was collected. Six areas in the northwest corner of Lot 203 were found to contain expended explosive ordnance and components. These six areas were plotted by electronic distance measurement (EDM) using the "in-place" area light poles in Lot 203 (no surveyor reference point was available). These six areas were centrally staked, marked on Appendix A, Figure 3-2, and assigned the following GEO-CENTERS' project numbers:

1. **GC-203-1** - Located 125 Feet Northeast of the 1st light pole north of the railroad gate and 127 feet East-Southeast of the 2nd light pole north of the railroad gate. Two Mk II grenades were located. Camp Lejeune EOD personnel were notified and removed the grenades for proper disposition.
2. **GC-203-2** - Located 36 feet Southeast of 2nd light pole east of the northwest corner of Lot 203 and 117 feet West-Southwest of 3rd light pole east of the northwest corner of Lot 203. Scattered 7.62 mm ammunition was found in this area (comprising approximately 25 ft<sup>2</sup>). All ammunition was removed, area was raked and reexamined for any additional items; none found. Ammunition was turned over the Camp Lejeune EOD Unit.
3. **GC-203-3** - Located 107 feet Southeast of 2nd light pole east of the northwest corner of Lot 203 and 70 feet Southwest of 3rd light pole east of the northwest corner of Lot 203. Scattered 3.5-inch practice rocket warheads were located in this area. All rocket warheads were removed and the area was reexamined for any additional items; none found.
4. **GC-203-4** - Located 29 feet North of 2nd light pole east of the northwest corner of Lot 203 and 134 feet Northwest of 3rd light pole east of the northwest corner of Lot 203. Scattered 30 mm and 40 mm expended ammunition was located in this area. All components were removed and the area was reexamined for any additional items; none

found.

5. **GC-203-5** - Located 134 feet Southeast of 2nd light pole east and 112 feet Southwest of 3rd light pole east. Scattered .50 caliber expended cartridges were located in this area. All cartridges were removed and the area was reexamined for any additional items; none found.

6. **GC-203-6** - Located 327 feet Southeast of 2nd light pole east and 188 feet Southeast of 3rd light pole east. Scattered 30 mm expended cartridges, 40 mm expended cartridges, small arms expended cartridges, and 3.5-inch practice rocket warheads were located in this area. All items were removed and the area was reexamined for any additional items; none found.

Within Open Storage Area Lot 203, in the Northeast area of the site, 105 mm expended ammunition (cartridge cases) was located. The area was immediately cordoned off with "CAUTION" tape awaiting investigation. Investigation was completed during Task 2.

#### **2.2.2 Areas North of Open Storage Lot 203**

A UXO surface reconnaissance was performed by establishing search lanes in a East to West direction. An area approximately 200 feet wide (using the north fenceline of Lot 203 as a baseline) stretching from Piney Green Road west to the railroad tracks was searched. As a result of this search, several 105 mm expended ammunition components (cartridge cases) were located along the ravine walls in close approximation to Lot 203 fenceline. This area was also cordoned off with "CAUTION" tape awaiting investigation. Investigation was completed during Task 2.

#### **2.2.3 Areas South of Open Storage Lot 203 and East of Open Storage Lot 201**

The area south of Lot 203 was searched in a east-west direction using the south fenceline of Lot 203 as a baseline. The search stretched from Piney Green Road on the east to the railroad tracks on the west. Search continued until the north end of Lot 201 was reached.

Once lot 201 was reached, the search continued east-west using the east fenceline of Lot 201 as the west boundary line of the search area. The search area continued south of Lot 203 and east of Lot 201 to a point approximately 985 feet north of the southern end of Lot 201 bordered on the east by Piney Green Road.

Six areas containing 105/106 mm expended cartridges were located within this area south of Lot 203 during the UXO surface reconnaissance. All these additional areas were located in the east-central portion of site 6 within close approximation to unimproved roads not shown on the current engineering map. All areas were immediately cordoned off with "CAUTION" tape awaiting investigation. These sites were investigated in Task 2.

It is speculated that these six areas and the previously located ones within and north of lot 203 were used as a staging/dump area during field maneuvers. Preliminary investigation indicates that narrow trenches were dug and items were buried as a means (common practice at that time) of disposition. The common denominators of all "dump" sites is communication wire and carbon battery packs.

### 2.3 TASK 2 - UXO GEOPHYSICAL SURVEY

Original requirements of the task defined that ten - 1 acre sites would be selected for geophysical survey which included the use of an all-metals detector and magnetometer. After discovery of the current eight sites that contained expended ammunition components, Baker Environment changed the requirements based on GEO-CENTERS recommendations and selected the eight "ordnance" sites for exploratory excavation. GEO-CENTERS recommendations were based on the premise that the only indications of any buried ordnance were the "discovered" eight piles of ordnance.

Excavations were performed on eight specific sites; six located south of Lot 203; one located in the northeast corner of Lot 203; and one located in the Ravine Area, north of Lot 203. These sites were located during Task 1 and contained UXO components either on the surface or partially buried.

All trenching was accomplished with minimal disturbance of the environment. Where practicable, the trenches were shaped to incur minimum disturbance to the soil and vegetation. Magnetometry and all-metal detection was used to determine the extend of the trenches. The major difficulty lay in the burial sites containing communication wire; the magnetometer and all-metals detector were limited in determining the presence of any ordnance components versus junk, debris, communication wire, etc.

A backhoe was utilized to excavate seven of the eight sites (the eight site was located in the Ravine to the north of Lot 203; inaccessible to the backhoe). The sites were annotated on Appendix A, Figure 3-2, and assigned control numbers. The results of the investigation are as follows:

1. **GC-203-7** - Initial appearances revealed a refuse pile containing some expended 105/106 mm cartridges. Non-hazardous UXO components were cleared and the surface was scraped of all excess debris. A trench (4'W x 10'D x 22'L) was dug by the backhoe; no additional components were discovered. **Findings:** This site does not indicate a burial site; surface dump only.

2. **GC-203-8** - This site initially appeared to be a shallow trench extending from a dirt road (not shown on the map) to a length approximately 75 feet positioned west to east. The average width was approximately 20 feet wide. Several 105/106 mm cartridges were protruding through the surface. Attempts to remove the ammunition by hand proved quite ineffective; the cartridges were intermixed with "thousands of feet" of discarded communication wire. The backhoe was utilized at the eastern end of the shallow trench. After several excavations, the backhoe excavated small metal containers. Initial investigation revealed containers of what appeared to be old paint cans. Baker Environmental collected soil samples from the open trench for analysis; GEO-CENTERS backfilled the trench per the direction of Baker Environmental pending results of analysis. **Findings:** Burial Site

3. **GC-203-9** - At this site was a pile of dirt with ten 105/106 mm expended cartridges. Intermixed with the components were packets of batteries (still in the original plastic container) and communication wire. The inert ordnance was removed and an exploratory

trench (10'L x 6'D x 3'W) was dug. Excavations revealed no further indications of the presence of any ammunition. The trench was backfilled. **Findings:** Surface dump only.

4. **GC-203-10** - Initial appearances of this site revealed a small pile of 105/106 mm expended cartridges. Upon excavation, a larger quantity of various sized projectile cartridges were discovered. The backhoe was utilized for excavation and an area approximately 45'L x 25'W x 7'D was excavated. Over a thousand cartridge cases (105 mm, 106 mm, 90 mm ) were removed from this excavation. The cartridge cases were transported to the specified area in Lot 203 (adjacent to the weighing station) pending disposition. Excavation was continued until no further indications of ordnance components were visible; However, the trench appeared to continue for some distance with communication wire protruding from the ground. Magnetometry was attempted on this site to delineate the boundaries, but proved ineffective due to the large quantity of communication wire. Further excavation was halted by Baker Environmental due to the fact that it would require the removal of several 50-60 ft tall pine trees in the immediate area. Trench was backfilled per the directions of Baker Environmental. **Findings:** Burial Site, all ordnance components that were located were removed.

5. **GC-203-11** - This site contained a pile of debris with several 105/106 mm expended cartridges intermixed. Inert ordnance and surface debris was removed. An "V" shape trench was excavated (both components being 14'L x 6'D x 4'W). Trench walls and soil contents revealed no indications of a burial site. Trench was backfilled. **Findings:** Surface Dump only.

6. **GC-203-12** - This site appeared to be a shallow trench containing a small pile of debris with several 105/106 mm ammunition components protruding through the surface. Surface debris was removed and a "V" shape trench was dug (20'L x 4'W x 8'D). Trench contained hundreds of 105 mm ammunition components. Excavation was suspended by direction of Baker Environmental, due to the required removal of several 50-60 ft tall pine trees to facilitate further excavation and provide safety to the UXO team. Components were intermixed with the roots of the existing pine trees. **Findings:** Burial Site



7. **GC-203-13** - Located in the northeast section of Lot 203, initial appearance revealed a refuse pile that contained several 105/106 mm expended cartridges and other assorted metallic trash. Inert ordnance was removed and an excavation of the immediate site (10'L x 4'W x 6'D) revealed no presence of ordnance components or indications of a burial site. **Findings:** Surface dump only.

8. **GC-203-14** - This site was located in the Ravine Area, north of Lot 203. Several expended cartridges were discovered on the eastern slope of the ravine wall near the corner fencepost of Lot 203. In addition to the cartridges, dozens of sinks, toilets, metal file cabinets, vehicle frames, and other metallic trash was intermixed in this area. The inert ordnance was removed and a surface sweep (visual) of the immediate area was accomplished. Due to the large volume of metallic trash, magnetometry was impractical to determine any further items. **Findings:** Surface dump only.

#### 2.4. **TASK 3 - SOIL BOREHOLE/MONITOR WELL UXO SURVEY**

An UXO Surface Clearance and Subsurface Survey was performed on 121 Soil Borehole locations and 9 Monitoring Well locations. The purpose of this UXO survey was to obtain sufficient area around each surveyed stake to permit drilling for soil boreholes and monitor wells.

Lot 203 was originally a Department of Defense Reclamation Area and contains an inordinate amount of metallic trash and debris throughout the area. Areas to be cleared around the Soil Borehole/Monitor Well sites are the maximum obtainable due to the conditions of the area. Appendix A (Topographic Maps Figure 3-2 and Figure 3-3) reflects the soil borehole locations the locations of the monitor wells (Topographic Map Figure 3-4).

The immediate area of each staked location was surface cleared and subsurface surveyed for the presence of potential UXOs (metallic contact or magnetic anomaly). If sufficient area was not available, the stake was relocated to a "clean" (non-contact/anomaly) area as directed by Baker Environmental. The new location was annotated and is contained in the following tables.

The soil boreholes were divided into 6 sections for cataloging:

- Area within Lot 203 and area north of Lot 203
- PCB Storage Study Area (northeast corner of Lot 203)
- Ravine Study Area (defined area north of Lot 203)
- DDT Disposal Study Area (southeast corner of Lot 203)
- Area south of Lot 203 and north of Lot 201
- Area east of Lot 201

Note

Boreholes and Monitor Wells located south and southeast of Lot 201 and East of Piney Green Road were not required to be surveyed.

Tables 6-1 through 6-6 contain information on clearance area, relocation, and other pertinent facts in connection with the Soil Boreholes. Table 6-7 contains information on the Monitor Wells.

Table 6-1

Lot 203 and Areas North of Lot 203

Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>	Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>
1	6 ft	Original	20	6 ft	Original
2	6 ft	6 ft East	21	4 ft	Original
3	6 ft	4 ft East	22	6 ft	Original
4	4 ft	Original	23 <sup>6</sup>	1 ft	17 ft South
5	6 ft	Original	24 <sup>7</sup>	1 ft	Original
6 <sup>3</sup>	4 ft	15 ft East	25	10 ft	Original
7 <sup>3</sup>	4 ft	3 ft East	26 <sup>8</sup>	4 ft	Original
8	6 ft	Original	27	4 ft	6 ft South
9	6 ft	Original	28 <sup>9</sup>	4 ft	1 ft North
10	6 ft	Original	29	4 ft	1 ft North
11	6 ft	Original	30	6 ft	Original
12 <sup>3</sup>	4 ft	15 ft East	31	4 ft	Original
13 <sup>3</sup>	4 ft	4 ft West	32	4 ft	Original
14 <sup>3</sup>	6 ft	12 ft South	33 <sup>10</sup>	6 ft	22 ft North 3 ft East
15	6 ft	8 ft South	34	10 ft	Original
16	6 ft	Original	35	4 ft	Original
17 <sup>4</sup>	4 ft	Original	36	10 ft	Original



Table 6-1 - Continued.

Lot 203 and Areas North of Lot 203

Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>	Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>
18 <sup>5</sup>	4 ft	Original	37	1 ft	1 ft South
19	4 ft	8 ft East			

- 1 This task was a non-intrusive operation. Whenever possible, a clearance area up to 10 ft in diameter was attempted; results are as listed.
- 2 If sufficient area was available at the surveyed position for drilling, the table lists a location as "original". Any required movement to obtain a clear area is based on direction and distance from the original position of the survey stake. Survey stake was repositioned at the new location.
- 3 Moved at request of drillers
- 4 Relocated due to wrong positioning by survey crew - new original position is 55 ft south (12 south of fenceline)
- 5 Relocated due to wrong positioning by survey crew - new original position is 69 ft south (13 south of fenceline)
- 6 Original position within 6 inches of fence surrounding oil waste area. Heavily trashed metallic area.
- 7 \* Metallic Trash in area (large quantities).
- 8 Large steel plate in approximation.
- 9 Area located near the area "weigh-in" scales. Heavily metallic trashed area.
- 10 Original position was at the base of area lighting pole tie-down wire. A very large magnetic anomaly was in original area.

Table 6-2

PCB Storage Study Area

Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>	Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>
1	4 ft	Original	8	6 ft	Original
2	6 ft	Original	9	4 ft	Original
3	6 ft	Original	10	6 ft	Original
4	6 ft	Original	11	10 ft	Original
5	6 ft	Original	12	6 ft	Original
6	4 ft	Original	13	4 ft	3 ft West
7	6 ft	Original	14	4 ft	Original

- 1 This task was a non-intrusive operation. Whenever possible, a clearance area up to 10 ft in diameter was attempted; results are as listed.
- 2 If sufficient area was available at the surveyed position for drilling, the table lists a location as "original". Any required movement to obtain a clear area is based on direction and distance from the original position of the survey stake. Survey stake was repositioned at the new location.

Table 6-3

Ravine Study Area<sup>1</sup>

Borehole Number	Clearance Diameter <sup>2</sup>	Location <sup>3</sup>	Borehole Number	Clearance Diameter <sup>2</sup>	Location <sup>3</sup>
1	6 ft	Original	8	4 ft	Original
2	6 ft	Original	9	6 ft	Original
3	6 ft	Original	10	6 ft	Original
4	6 ft	Original	11	6 ft	Original
5	6 ft	Original	12	4 ft	15 ft east
6	4 ft	15 ft east	13	4 ft	4 ft west
7	4 ft	3 ft east	14	4 ft	12 ft south <sup>4</sup>

- 1 The Ravine was used as a "dumping ground" for large quantities of base trash. Examples of the items are tires, toilets, sinks, steel cabinets, etc.
- 2 This task was a non-intrusive operation. Whenever possible, a clearance area up to 10 ft in diameter attempted; results are as listed.
- 3 If sufficient area was available at the surveyed position for drilling, the table lists a location as "original". Any required movement to obtain a clear area is based on direction and distance from the original position of the survey stake. Survey stake was repositioned at the new location.
- 4 Soil Boring #14 was moved inside the fenceline of Lot 203 due to no immediate area being able to be cleared. The original position was surrounded by fence and heavy growth.

Table 6-4

DDT Disposal Study Area

Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>	Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>
1	2 ft	Original	18	4 ft	4 ft north 3 ft east
2	4 ft	Original	19	4 ft	Original
3	6 ft	Original	20	6 ft	Original
4	6 ft	Original	21	2 ft	Original
5 <sup>4</sup>	6 ft	15 ft west	22	4 ft	10 ft east
6	4 ft	Original	23	4 ft	15 ft east
7	6 ft	Original	24	6 ft	Original
8	4 ft	15 ft north	25	6 ft	Original
9	4 ft	Original	26	6 ft	Original
10	6 ft	Original	27 <sup>3</sup>	6 ft	7 ft north 6 ft west
11	4 ft	Original	28	6 ft	Original
12	4 ft	Original	29	6 ft	Original
13	4 ft	3 ft west	30 <sup>3</sup>	6 ft	12 ft south
14	4 ft	Original	31 <sup>3</sup>	6 ft	10 ft north
15	6 ft	8 ft south	32	6 ft	Original

**Table 6-4 - Continued.**

**DDT Disposal Study Area**

Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>	Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>
16	2 ft	Original	33 <sup>3</sup>	6 ft	15 ft north
17	4 ft	Original	34	6 ft	Original

- 1 This task was a non-intrusive operation. When available, a clearance area up to 10 ft in diameter was attempted; results are as listed.
- 2 If sufficient area was available at the surveyed position for drilling, the table lists a location as "original". Any required movement to obtain a clear area is based on direction and distance from the original position of the survey stake. Survey stake was repositioned at the new location.
- 3 Moved at the request of the drilling team.
- 4 Original position was in the middle of Piney Green Road.



**Table 6-5**

**Area South of Lot 203 and Area North of Lot 201**

Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>	Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>
1	4 ft	10 ft north 8 ft east	6	6 ft	Original
2	8 ft	Original	7	6 ft	Original
3	4 ft	2 ft south	8	6 ft	Original
4	6 ft	Original	9	6 ft	Original
5	6 ft	Original	10	6 ft	Original

- 1 This task was to be a non-intrusive operation. When ever possible, a clearance area up to 10 ft in diameter attempted; results are as listed.
- 2 If sufficient area was available at the surveyed position for drilling, the table lists a location as "original". Any required movement to obtain a clear area is based on direction and distance from the original position of the survey stake. Survey stake was repositioned at the new location.

**Table 6-6**

**Area East of Lot 201**

Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>	Borehole Number	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>
1	6 ft	Original	7	4 ft	Original
2	6 ft	Original	8	6 ft	8 ft north
3	8 ft	Original	9	4 ft	Original
4	4 ft	Original	10	8 ft	Original
5	6 ft	Original	11	6 ft	Original
6	6 ft	Original	12	6 ft	Original

- 1 This task was to be a non-intrusive operation. When ever possible, a clearance area up to 10 ft in diameter attempted; results are as listed.
- 2 If sufficient area was available at the surveyed position for drilling, the table lists a location as "original". Any required movement to obtain a clear area is based on direction and distance from the original position of the survey stake. Survey stake was repositioned at the new location.

**Table 6-7**

**Monitoring Wells**

Monitoring Well	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>	Monitoring Well	Clearance Diameter <sup>1</sup>	Location <sup>2</sup>
6GW27S	10 ft	Original	6GW19	10 ft	Original
6GW27D	10 ft	Original	6GW20	10 ft	Original
6GW28S	10 ft	Original	6GW25	10 ft	Original
6GW28D	10 ft	Original	6GW28	10 ft	Original
6GW1D	10 ft	Original			

- 1 This task was a non-intrusive operation. Whenever possible, a clearance area up to 10 ft in diameter attempted; results are as listed.
- 2 If sufficient area was available at the surveyed position for drilling, the table lists a location as "original". Any required movement to obtain a clear area is based on direction and distance from the original position of the survey stake. Survey stake was repositioned at the new location.

## 2.5

### TASK 4 - TRENCHING AND TEST PIT EXCAVATION

Trenching and Test Pit Excavations were conducted in areas that indicated possible burial sites. Baker Environmental reviewed aerial photography (circa. 1952, 1956, 1960, 1964, 1970) and in conjunction with the results from the ground penetrating radar (GPR) surveys, selected 29 potential trenches for excavation. The geophysical investigation of Lot 203 helped to delineate the boundary of the former borrow pits/trenches.

Excavations were conducted in a safe manner using standard operating procedures and health and safety protocols. Each trench was excavated perpendicular to the midpoint of its length. The depth, width, and length of each excavation was at the discretion of the on-site Baker Environmental Team. Level "B" Personal Protective Equipment (PPE) was worn for this operation.

During excavation of TR 0005, a Mk II Hand Grenade was uncovered (GC-203-15). Camp Lejeune EOD Unit was notified and assumed responsibility for the item upon their arrival.

Several of the excavations (GS 1960 trenches) contained buried ammunition components (expended 105/106 mm cartridges). Soil samples were removed from selected excavations; all excavations were backfilled per the direction of Baker Environmental. Table 6-8 lists the trenches/test pits that were excavated.

## 2.6

### EQUIPMENT CALIBRATION

GEO-CENTERS established a calibration site in the southwest corner of Open Storage Lot 203. The area was approximately 10 ft square and contained 2 ferrous items and 1 non-ferrous metallic item.

GEO-CENTERS used a Foerster FEREX® K4.021 and White's Eagle Spectrum for the daily calibration. Prior to the commencement of each day's operations, the locators were tested and calibrated in the test calibration site. This test section was preserved allowing daily and confirmation testing and calibration of the equipment.

Table 6-8

Trench/Test Pits

Trench #	Date of Excavation	Number of Excavations	Trench #	Date of Excavation	Number of Excavations
TR 1970 A	9/27/92	1	GS 1960 C*	9/29/92	1
TR 1970 B	9/27/92	1	GS 1960 D*	9/29/92	2
TR 1970 C	9/27/92	2	TR 1956 B	9/30/92	1
TR 1970 D	9/27/92	2	TR 1956 C	9/30/92	1
TR 1970 E	9/27/92	1	TR 1960 B	9/30/92	1
TR 1960 A	9/27/92	1	TR 1960 C	9/30/92	3
TR 1956 A	9/28/92	1	TR 1960 D	9/30/92	1
TR 1964 A	9/28/92	2	GS 1960 E	9/30/92	1
TR 1952 A	9/29/92	1	GS 1964 A	9/30/92	1
TR 1952 B	9/29/92	1	TR 0001	9/30/92	1
TR 1952 C	9/29/92	2	TR 0002	9/30/92	1
TR 1964 B	9/29/92	1	TR 0003	9/30/92	1
TR 1964 C	9/29/92	1	TR 0004	9/30/92	1
GS 1960 A*	9/29/92	2	TR 0005	10/1/92	1
GS 1960 B*	9/29/92	2			

\* Burial Site - 105/106 mm cartridges, paint cans, communication wire, batteries, etc.

2.7

UXO SUMMARY

Listed below is the list of explosive ordnance and inert ordnance that was recovered during thei UXO Survey performed at Site 6, Camp Lejeune, North Carolina

<u>Item</u>	<u>Quantity</u>	<u>Disposal</u>
Mk II Grenade	3 ea	Camp Lejeune EOD
7.62 mm ammunition	100	Camp Lejeune EOD
.50 Caliber cartridge	40	Awaiting disposition
3.5 in practice rocket	15	Awaiting disposition
20 mm cartridge	10	Awaiting disposition
30 mm cartridge	23	Awaiting disposition
40 mm cartridge	54	Awaiting disposition
105/106/90 mm RR/Standard cartridges	1000+	Awaiting disposition

2.8

DISPOSAL

Disposal of all hazardous ordnance was the responsibility of the Camp Lejeune EOD Unit. Three (3) Mk II Fragmentation Grenades and 7.62 mm ammunition were turned over to the EOD unit during this UXO activity.

Non-hazardous ordnance (inert ordnance) was collected and deposited near the weighing station in the southwest corner of Open Storage Lot 203. This inert ordnance was inspected the GEO-CENTERS' UXO Site Safety Officer prior to positioning. The disposition of this "scrap" is the responsibility of Baker Environmental.

## SECTION III

### SAFETY AND HEALTH REQUIREMENTS

#### 3.1 PERSONNEL PROTECTIVE EQUIPMENT

Intrusive activities were performed using EPA Level "B" Personnel Protective Equipment (PPE). This requirement stems from the potential for shallow burial of hazardous toxic waste in closed containers within the disposal area. These activities included pit excavation and sample monitoring. Proper air monitoring was performed by the Baker Environmental Work Crew.

Level B protection is worn when the highest level of respiratory protection is necessary, but a lesser level of skin protection is needed. The following conditions constituted a need for Level B protection.

- Atmospheres with concentrations of known substance greater than protective factors associated with full face, air purifying respirators, and require less skin protection.
- The atmosphere contains less than 19.5 percent oxygen.
- Site operations make it highly unlikely that the small, exposed areas of the head or neck will be contacted by splashes of extremely hazardous substances.
- Type(s) and concentration(s) of vapors in air do not present a cutaneous or percutaneous hazard to small, unprotected areas of the body.

The following items constituted Level B protection utilized by GEO-CENTERS.

1. Positive pressure, full-faceplate, self-contained breathing apparatus (SCBA) approved by NIOSH/MSHA.
2. Hooded chemical resistant clothing (one piece chemical splash suit/disposable chemical resistant coveralls).
3. Gloves, outer, chemical resistant.
4. Gloves, inner, chemical resistant.
5. Boots, chemical resistant.
6. Boot covers, outer, chemical resistant (disposable).
7. Hard hat (required because of backhoe operation).
8. Two-way radios.

Surface debris removal presents a low risk of exposure since debris has been weathered for several years and the contaminants most likely have been washed away. For this reason, EPA Modified Level D is worn by field personnel.

### **3.2 DAILY HEALTH AND SAFETY REPORT**

A Daily Health and Safety Report was generated by the UXO Site Safety Officer on days when site work had been conducted in Level "B" Personnel Protective Equipment. This report documented the the work performed by GEO-CENTERS, equipment utilized, PPE used, and any other pertinent data.



### 3.3

### DAILY SAFETY ORIENTATION

The Daily Safety Orientation Report was completed prior to the beginning of any day's UXO operation. This report documented the daily site-specific safety training conducted by the UXO SSO. The personnel attending the training, the level of protection, topics of discussion, and questions of concern were entered appropriately on the report.



## SECTION IV

### QUALITY CONTROL

#### 4.1 PREPARATORY INSPECTION

Before initiating this project, a preparatory inspection was conducted by the Project Leader in conjunction with the Site Manager and SHSO from Baker Environmental. The information was entered on a Daily Activities Report. The highlights of the inspection included:

- Review of task requirements with Baker Environmental
- Check/schedule provisions to conduct survey operations.
- Examined the survey area to determine that all preliminary work has been completed.
- Verified all survey site dimensions and site specific survey locations.
- Performed a physical examination of all materials and equipment to ensure conformance with task requirements and that all necessary amounts are on hand.

#### 4.2 INITIAL/FOLLOWUP/COMPLETION REPORT

Followup Quality Control inspections (consisting of "spot" resurveys) were conducted as required throughout each phase of work to ensure quality performance. Particular emphasis was placed on identifying and correcting any deficiencies in field implementation. These inspections were annotated on **Quality Assurance Audit Checklist and Audit Notes** form.



**Appendix B**  
**Weston's Geophysical Report**

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### APPENDICES

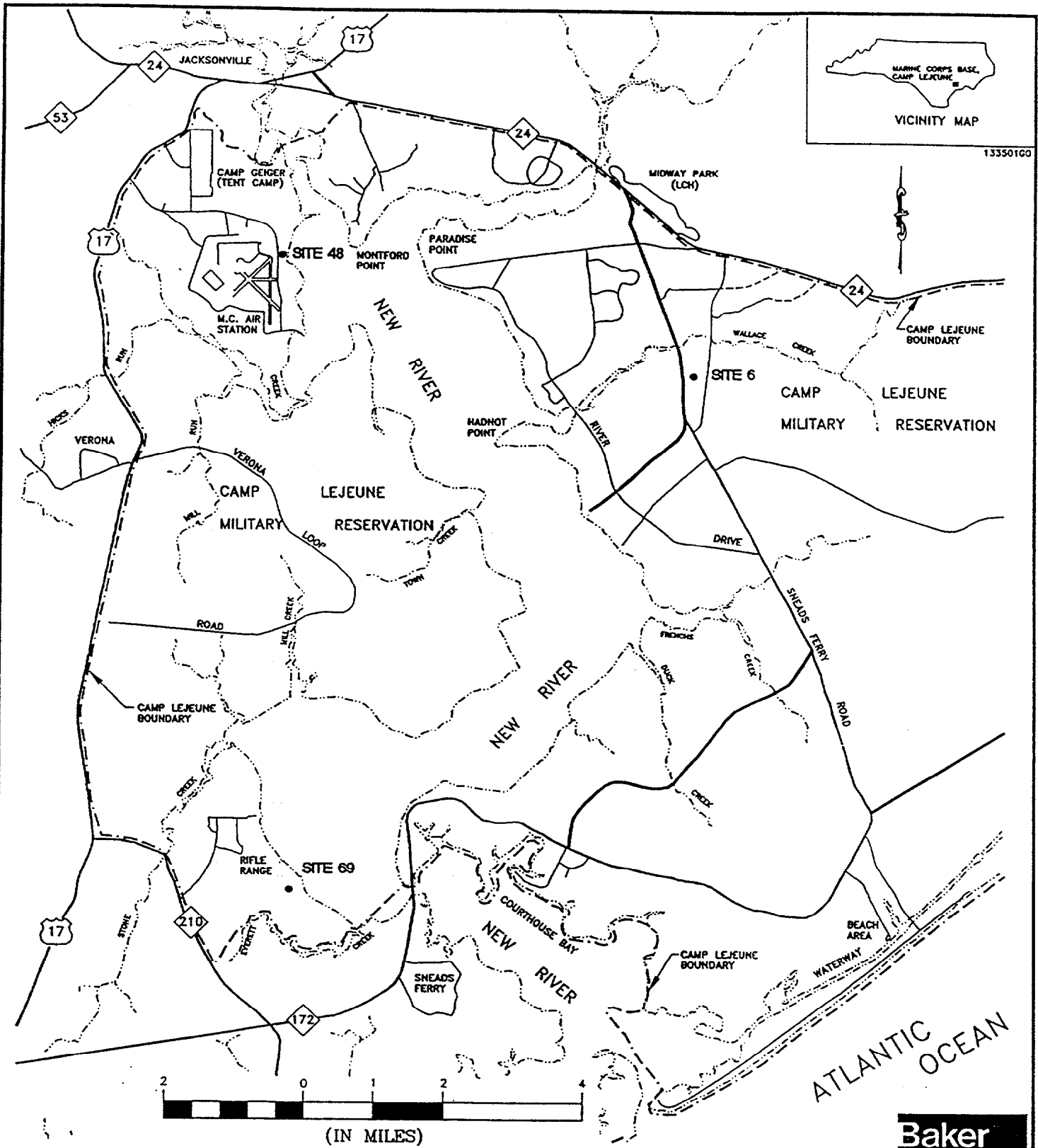
- A EM Conductivity and In-Phase Profiles

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## **1.0 INTRODUCTION AND INVESTIGATION OBJECTIVES**

A surface geophysical survey was conducted from August 24 to September 3, and December 14 to 18, 1992, at Marine Corps Base (MCB) Camp Lejeune, Jacksonville, North Carolina. The survey objectives at Site 6 - MCB Storage Lot 203 were to delineate areas of suspected disposal and to identify locations of buried metal. The survey objective at Site 48 - Marine Corps Air Station (MCAS) Mercury Dump was to detect areas of suspected mercury disposal. At Site 69 - Rifle Range Chemical Dump, the survey objectives were to delineate suspected disposal trenches and to identify areas of buried metal. Figure 1-1 shows the location of the three sites investigated.



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GEOPHYSICAL INVESTIGATION  
MCB CAMP LEJEUNE  
NORTH CAROLINA

SITE LOCATION MAP  
SITES 6, 48 and 69

WESTON GEOPHYSICAL CORP.  
Coraopolis, Pennsylvania

DATE MARCH 1993

Fig. No. 1-1

## **2.0 METHODS OF INVESTIGATION**

Non-invasive geophysical techniques that were utilized to meet the objectives included electromagnetic (EM) terrain conductivity, magnetometry, and ground penetrating radar (GPR).

### **2.1 Survey Control**

Geophysical data obtained during this survey were referenced to a grid established at each site, as well as to roads, fences, wells, and other physical and cultural features on site. At Sites 6 and 48, a survey grid was established by Hoggard-Eure Associates (a licensed professional surveying company) that consisted of 100-foot and 10-foot spaced lines, respectively. Due to heavy vegetation and understory at Site 69, geophysical traverses were referenced to an old road crossing the site and located by compass bearing and taped distance measurements. These east-west oriented traverses were subsequently located and stationed at 50-foot intervals by Hoggard-Eure. A second phase geophysical investigation at Site 69 was then conducted to further define areas of suspected burial. Figures 2-1, 2-2, and 2-3 show the survey grid and surface conditions noted at Sites 6, 48, and 69, respectively.

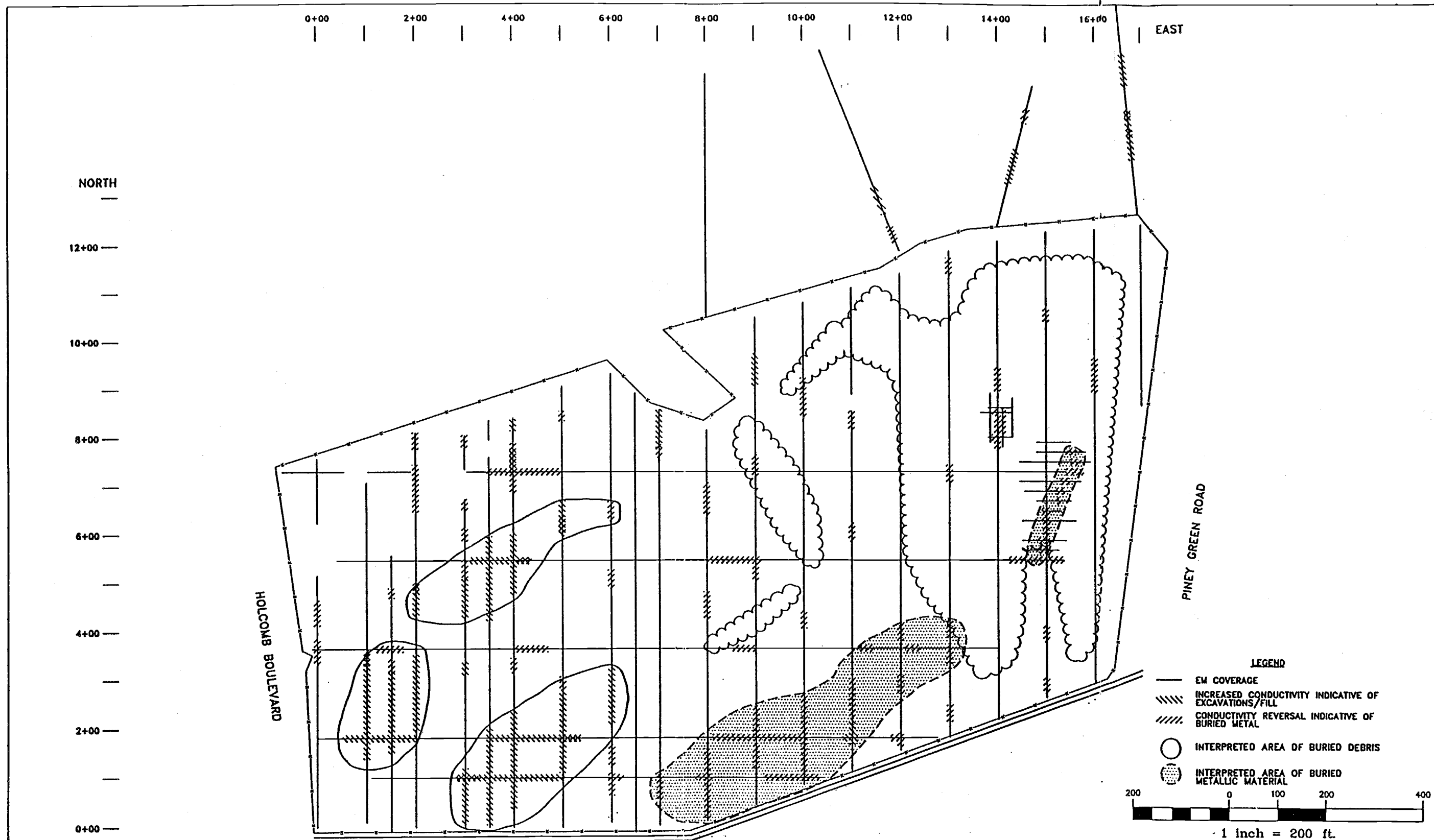
### **2.2 Electromagnetic Terrain Conductivity**

Electromagnetic terrain conductivity profiling was performed to map the lateral extent of buried material and to identify buried metal objects and other debris. Instrumentation utilized for this survey included a Geonics model EM-31, with an effective penetration depth of approximately 15 feet when operated in the vertical dipole mode (VDM).

The conductivity of the soil or buried materials is determined by measuring the response of the ground to an induced magnetic field. Factors affecting in-situ conductivity include porosity, moisture content, clay content, and the conductivity of subsurface fluids and materials. Former excavations or landfill boundaries may be detected through measurement of lateral variations in soil conductivity. This method may also be used to infer the presence of buried metal objects, such as drums, tanks, or utilities.

Both the quadrature-phase (terrain conductivity) and in-phase components of the EM field were measured in the vertical dipole mode. The quadrature-phase mode provides a measurement of soil conductivity, while the in-phase mode is responsive to the effects of highly





REVISIONS

WESTON GEOPHYSICAL CORP.  
IS A WHOLLY OWNED SUBSIDIARY  
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DATE MARCH 1993  
SCALE 1" = 200'  
DRAWN REL  
REVIEWED MJN  
S.O.# 19133-54-SRN  
CADD# 133510GO

GEOPHYSICAL INVESTIGATION  
MCB CAMP LEJEUNE  
NORTH CAROLINA

WESTON GEOPHYSICAL CORP.  
Coraopolis, Pennsylvania

**Baker**  
Baker Environmental, Inc.

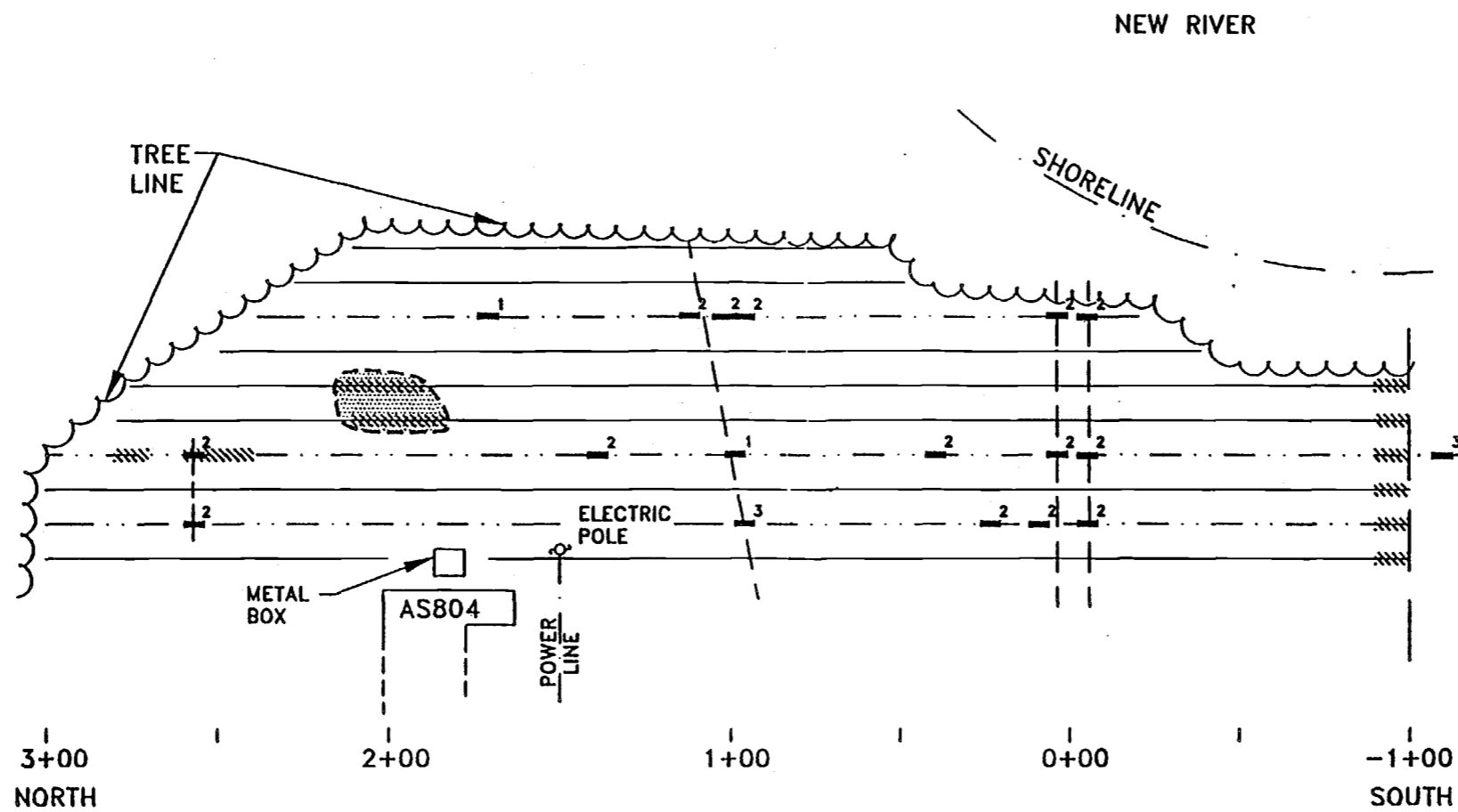
SITE 6 - LOT 203  
EM SURVEY RESULTS

SCALE 1" = 200'

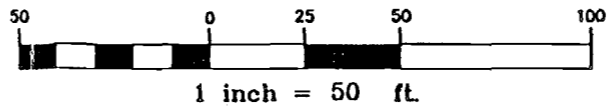
DATE MARCH 1993

FIGURE NO.  
2-1

01615M04Z

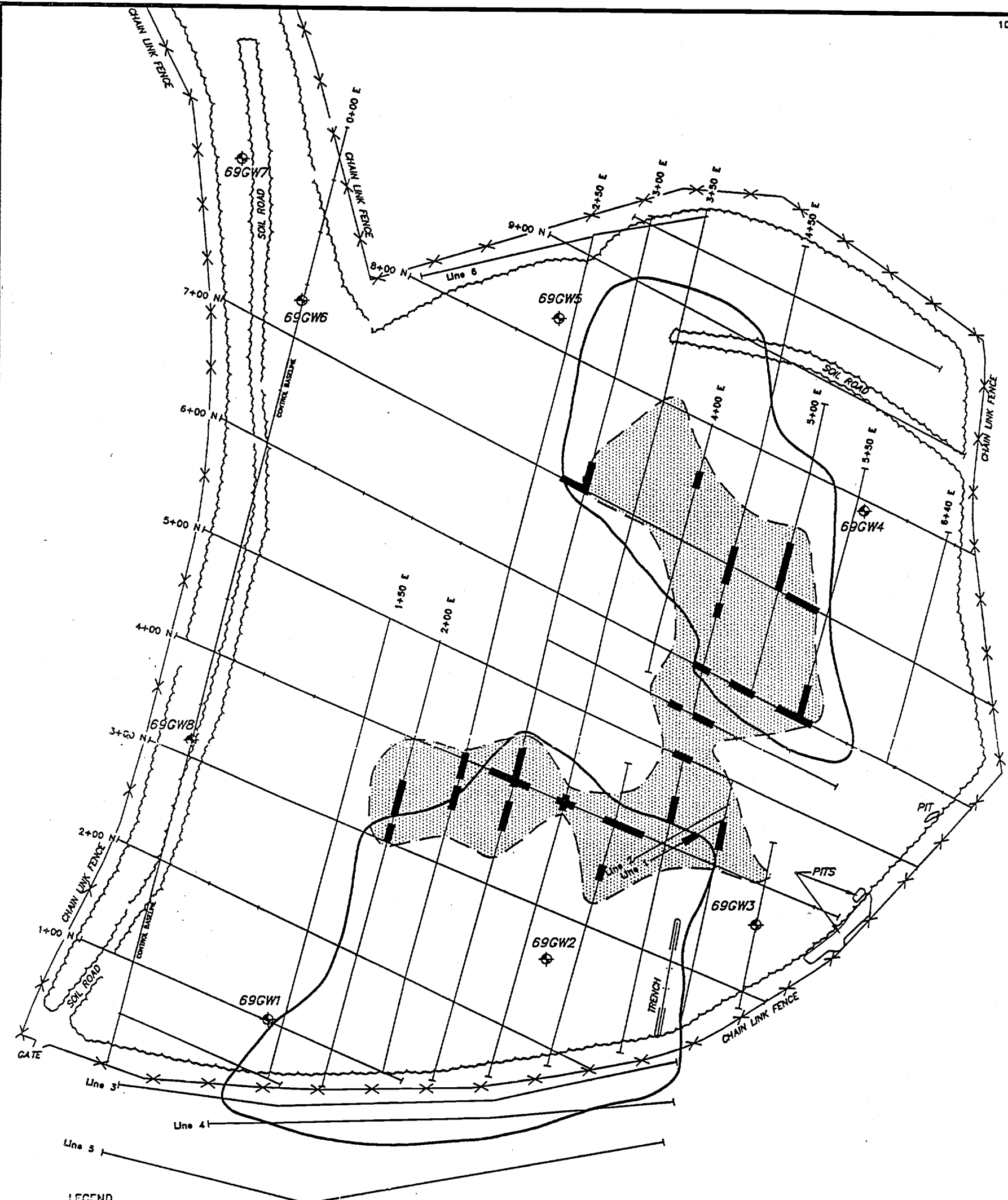


LONGSTAFF ROAD



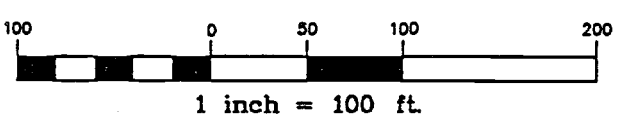
- LEGEND**
- EM AND GPR SURVEY LINE
  - EM SURVEY LINE
  - 1 BURIED OBJECT/UTILITY
  - ▨ CONDUCTIVITY REVERSAL INDICATIVE OF BURIED METAL
  - - - INFERRED UTILITY TREND
  - INTERPRETED AREA OF BURIED METALLIC MATERIAL

REVISIONS  WESTON GEOPHYSICAL CORP. IS A WHOLLY OWNED SUBSIDIARY OF BAKER ENVIRONMENTAL, INC.	DATE MARCH 1993 SCALE 1" = 200' DRAWN REL REVIEWED MJN S.O.# 19133-54-SRN CADD# 133503GO	GEOPHYSICAL INVESTIGATION MCB CAMP LEJEUNE NORTH CAROLINA  WESTON GEOPHYSICAL CORP. Coraopolis, Pennsylvania	 Baker Environmental, Inc.	SITE 48 EM SURVEY RESULTS  SCALE 1" = 200' DATE MARCH 1993	FIGURE NO.  2-2
	01615M05Z				



**LEGEND**

- MONITORING WELL
- EM AND MAG SURVEY LINE
- INTERPRETED LIMIT OF INCREASED CONDUCTIVITY (>10 mmhos/m)  
INDICATIVE OF BACKFILL MATERIALS AND/OR CONTAMINANT PLUME
- INTERPRETED LIMIT OF INCREASED MAGNETIC INTENSITY  
INDICATIVE OF BURIED FERROUS METAL
- BURIED METALLIC OBJECT



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GEOPHYSICAL INVESTIGATION  
 MCB CAMP LEJEUNE  
 NORTH CAROLINA

SITE 69  
 EM AND MAG  
 SURVEY RESULTS

WESTON GEOPHYSICAL CORP.  
 Coraopolis, Pennsylvania

DATE MARCH 1993

Fig. No. 2-3

01615M06Z

conductive, buried metallic objects. Terrain conductivity is measured in millimhos/ meter (mmhos/m) and the in-phase component is measured in parts per thousand (ppt) of the primary magnetic field.

EM-31 data were acquired at 5-foot intervals along each geophysical traverse. Both conductivity and in-phase measurements were recorded using a digital datalogger then downloaded to a portable computer for data processing and interpretation.

### 2.3 Magnetometry

Magnetic profiling was performed to complement the EM interpretation of subsurface objects and debris. A digital proton precession magnetometer (Geometrics model G-856X) was utilized for this geophysical investigation. Perturbations to the ambient magnetic field are indicative of nearby ferrous metal. The magnitude of these perturbations are a function of the mass of the metal object. The magnetometer measures the magnitude of the magnetic field to a resolution of 1.0 gamma.

Magnetic data were acquired at 10-foot stations along selected traverses, and a magnetic base station was reoccupied at approximately one hour intervals to facilitate adjustment of the data for natural daily variations due to solar activity.

The magnetic data were downloaded to a portable computer, corrected for diurnal drift, and profiled prior to interpretation. The magnetic data were then compared to EM conductivity and in-phase data to determine whether specific geophysical anomalies were caused by ferrous or non-ferrous buried objects or fill.

### 2.4 Ground Penetrating Radar

Ground penetrating radar is an electromagnetic survey technique that reveals a graphic cross-sectional view of subsurface stratigraphy and buried objects (i.e., drums, pipelines, tanks, boulders, etc.). Data acquisition is continuous along lines of coverage and a graphic recorder provides an immediate view of the data, yielding both horizontal (lateral) and vertical (depth) control information. Penetration (typically 2-8 feet) and resolution are determined by the frequency of the antenna, but the overall effectiveness of GPR can be limited by highly reflective materials such as water-saturated clay, salt, slag, or highly conductive inorganic materials.

GPR profiling was completed with analog instrumentation that consisted of a GSSI SIR-7 mainframe, Adtek graphic recorder, and 500 megahertz antenna. This antenna was selected to provide high-resolution recordings of buried objects within the landfill.

GPR profiling was conducted in an attempt to provide further characterization of subsurface conditions and buried materials, e.g., to distinguish buried drums from concrete debris with steel rebar and to more precisely delineate the limits of any excavation. GPR profiles were obtained along selected traverses at Sites 6, 48, and 69.

### 3.0 RESULTS

The geophysical survey at Sites 6, 48, and 69 are presented in the following subsections.

#### 3.1 Site 6 - Storage Lot 203

Site 6 is located approximately two miles east of the New River, on the Mainside portion of MCB Camp Lejeune. Lot 203 is located within Site 6. It covers approximately 225 acres on the northern end of Site 6 and is composed of both open and wooded areas. Historical photographs of Lot 203 depict numerous trenches that were excavated and backfilled. Solid wastes were likely disposed of in these trenches. Lot 203 was reportedly used as a waste storage area. The area of investigation and lines of geophysical coverage are shown on Figures 2-1.

A geophysical survey grid was established on site and referenced to 100-foot spaced parallel traverses which had been located and staked by Hoggard-Eure Associates. EM conductivity measurements showed background conductivity levels in the range of 5-10 mmhos/m. Distinct increases in conductivity above 100 mmhos/m, representative of a significant lateral change in conductivity due to buried waste and fill material, was measured along both north/south and east/west oriented lines across three broad areas in the western portion of the site as shown on Figure 2-1. Other more localized areas of anomalously high conductivity are also shown.

A widespread area containing buried metal was detected in the southern portion of the site, inside the perimeter fence and approximately parallel to the southern perimeter road as shown on Figure 2-1.

Buried metal was also detected in the wooded area on the eastern portion of the site as shown on Figure 2-1. Additional geophysical lines of coverage were added in order to better define potential areas of disposal within the woods. One area is centered near grid coordinates 15+00E/6+00N and its shape is characteristic of a trench.

Magnetic measurements were generally erratic across the entire site and due in part to the presence of surface metal objects and scattered scrap metal and debris. Areas of buried metal delineated on Figure 2-1 were coincident with anomalously high magnetic intensities, indicating the presence of buried ferrous metallic objects.

Several geophysical lines were extended to the north beyond the perimeter fence. As shown on Figure 2-1, conductivity measurements indicate that fill materials or buried debris may extend beyond the perimeter fence in the northeast corner of the lot.

### **3.2 Site 48 - MCAS Mercury Dump**

Site 48 is located east of MCAS on the west bank of the New River. The site is grass covered east of Longstaff Road to the tree line and heavy vegetation located along the river bank. It has been reported that metallic mercury was periodically disposed in the area extending from the rear of Building AS804 to the New River. A geophysical survey grid was established in this area by Hoggard-Eure Associates, extending from Buildings AS804 and AS805 northeast towards the New River. The area of investigation and specific lines of geophysical coverage are shown in Figure 2-2.

EM measurements showed background conductivity levels ranging between 10-20 mmhos/m across the site. This is within the limits of natural conductivities that would be expected for saturated silty soil underling this area adjacent to the New River. No lateral changes in conductivity were encountered which might indicate areas of previous disposal and backfill. However, in-phase measurements indicated the presence of a highly conductive, buried metallic material north of Building AS804, along Lines 0 + 40E and 0 + 50E near station 2 + 00N, as indicated on Figure 2-2. This appears to be unrelated to the numerous buried utilities on site which were detected by GPR conducted along several survey lines.

### **3.3 Site 69 - MCB Rifle Range Chemical Dump**

Site 69 is located west of the New River estuary, within MCB Camp Lejeune. The site is approximately 10-12 acres and is heavily wooded. The site was used as a chemical waste dump and materials were reportedly disposed in pits and trenches. These materials may include chemical surety materials (CSM), such as blister or nerve agents. The area of investigation and lines of geophysical coverage are shown in Figure 2-3.

EM conductivity and magnetic intensity measurements were obtained along orthogonal traverses extending across the site. EM measurements showed background conductivity levels at 10 mmhos/m. A distinct increase in conductivity above 10 mmhos/m, representative of a lateral change in conductivity due to buried waste and fill material, was measured across

two broad areas as shown on Figure 2-3. Within these two areas, EM in-phase and magnetic measurements indicated buried metallic and ferrous metallic objects.

The greater lateral extent of increased conductivity, to that of detected buried metal, may suggest that previous widespread burial of non-metallic debris on site may have occurred. Furthermore, zones of highest conductivity were not always coincident with the area of buried metal, suggesting widespread disposal on-site. An alternative explanation for the lateral extent of increased conductivity, primarily to the south and north, may be the presence of a conductive contaminant plume.



#### **4.0 SUMMARY AND CONCLUSIONS**

Conclusions of the geophysical investigations conducted at Sites 6, 48, and 69 are presented below.

##### **4.1 Site 6 - Storage Lot 203**

At Site 6, the geophysical survey indicated widespread burial of debris and materials primarily on the west and south portions of Lot 203. Scattered, buried metallic and ferrous metallic objects were detected at numerous locations across the site, including the wooded areas on the east and north sides of Lot 203.

An area measuring approximately 100 x 600 feet along the southern perimeter fence was identified as an area of widespread buried metal. This area is coincident with several burial trenches identified in the interim Environmental Photographic Interpretation Center (EPIC) report on 1952-1970 aerial photographs.

Locations of buried metal were identified in the wooded portion of the site. One location measures approximately 50 x 200 feet and is not coincident with any burial trench identified on aerial photographs by EPIC.

Based on the geophysical survey, the disposal of materials appears to extend approximately 100-200 feet beyond the perimeter fence at the northeast corner of Lot 203.

##### **4.2 Site 48 - MCAS Mercury Dump**

At Site 48, EM terrain conductivity measurements exhibited no lateral changes in conductivity or elevated levels of conductivity above background, which could be indicative of mercury disposal areas. However, in-phase measurements indicated the presence of a highly conductive, buried metallic material approximately 50-60 feet north of Building AS804. This area appears to be unrelated to numerous buried utilities on site detected by GPR and is partially coincident with a suspected disposal area identified on 1960 and 1964 aerial photographs by EPIC.

### **4.3 Site 69 - Rifle Range Chemical Dump**

At Site 69, lateral changes in conductivity were observed across two broad areas located in the south and north portions of the site. In the central portion of the site and partially coincident with the increased conductivities, buried metallic and ferrous metallic objects were detected. The greater lateral extent of increased conductivity relative to that of the buried metal locations, may indicate the previous widespread burial of non-metallic materials and/or the limits of a conductive contaminant plume. The areas identified with geophysics appear to be coincident with burial trenches identified on 1956, 1958, and 1964 aerial photographs by EPIC.

**Appendix C**  
**Summary of Soil Sampling Investigation**

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**C.1**

**Soil Sampling Summary for Grid 201A - Site 6**

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**APPENDIX C.1**

**TABLE C-1**

**SOIL SAMPLING SUMMARY FOR GRID 201 A  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB2	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB3	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB4	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB5	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB6	7	1-3	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB7	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB7A	3	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB8	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB9	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB10	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB11	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB12	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB13	5	0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics

**APPENDIX C.1**

**TABLE C-1 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 A  
SITE 6**

<b>Sample Location</b>	<b>Depth of Borehole (feet, bgs)</b>	<b>Sampling Intervals (feet, bgs)</b>	<b>Analytical Parameters</b>
SB14	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB15	4	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB16	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB17	5	0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB17A	8	Composite (0-8)	Full TCLP/RCRA Hazardous Waste Characteristics/Engineering Parameters
SB18	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB19	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB20	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB21	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB22	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB23	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB24	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB25	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB26	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides

**APPENDIX C.1**

**TABLE C-1 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 A  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB27	5	0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB28	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB29	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB30	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB31	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB32	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB33	7	0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB34	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB35	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB36	7	0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB37	7	0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB38	5	(0-5)	Grain Size Characteristics
SB39	6	Composite (0-4)	Full TCLP/RCRA Hazardous Waste Characteristics/Engineering Parameters

**C.2**

**Soil Sampling Summary for Grid 201B - Site 6**

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**APPENDIX C.2**

**TABLE C-2**

**SOIL SAMPLING SUMMARY FOR GRID 201 B  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	9	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides
SB2	7	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides
SB3	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB4	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB5	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB6	7	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB7	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB7A	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB8	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB9	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB10	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB11	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB12	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides

**APPENDIX C.2**

**TABLE C-2 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 B  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB13	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB14	7	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides
SB15	7	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB16	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB17	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB18	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB19	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB20	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB21	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB22	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB23	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB24	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB25	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics

**APPENDIX C.2**

**TABLE C-2 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 B  
SITE 6**

<b>Sample Location</b>	<b>Depth of Borehole (feet, bgs)</b>	<b>Sampling Intervals (feet, bgs)</b>	<b>Analytical Parameters</b>
SB26	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB27	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB28	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB29	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB30	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB31	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB32	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB33	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB33A	8	Composite (0-8)	Full TCLP/RCRA Hazardous Waste Characteristics/Engineering Parameters
SB34	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB35	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB36	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB37	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB38	3	Composite (0-3)	Grain Size Characteristics

**APPENDIX C.2**

**TABLE C-2 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 B  
SITE 6**

<b>Sample Location</b>	<b>Depth of Borehole (feet, bgs)</b>	<b>Sampling Intervals (feet, bgs)</b>	<b>Analytical Parameters</b>
<b>SB39</b>	<b>6</b>	<b>Composite (0-4)</b>	<b>Full TCLP/RCRA Hazardous Waste Characteristics/Engineering Parameters</b>

**C.3**

**Soil Sampling Summary for Grid 201C - Site 6**

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**APPENDIX C.3**

**TABLE C-3**

**SOIL SAMPLING SUMMARY FOR GRID 201 C  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB2	11	0-0.5	Full TCL PCBs
		7-9	Full TCL PCBs
SB3	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB4	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB5	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB6	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB7	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB8	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB9	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB10	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB11	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB12	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB13	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics

**APPENDIX C.3**

**TABLE C-3 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 C  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB14	7	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB15	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB16	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB17	9	0-0.5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB17A	9	Composite (0-7)	Full TCLP/RCRA Hazardous Waste Characteristics/Engineering Parameters
SB18	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB19	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB20	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB21	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB22	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB23	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB24	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB25	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB26	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs

**APPENDIX C.3**

**TABLE C-3 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 C  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB27	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB28	3	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
SB29	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB30	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB31	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB32	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB33	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB34	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB35	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB36	5	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB37	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB38	7	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB39	7	0-0.5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB40	8	Composite (0-6)	Grain Size Characteristics



**APPENDIX C.3**

**TABLE C-3 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 C  
SITE 6**

<b>Sample Location</b>	<b>Depth of Borehole (feet, bgs)</b>	<b>Sampling Intervals (feet, bgs)</b>	<b>Analytical Parameters</b>
SB41	8	Composite 0-6	Full TCLP/RCRA Hazardous Waste Characteristics/Engineering Parameters

C.4

**Soil Sampling Summary for  
DDT Grid in Lot 203 - Site 6**

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**APPENDIX C-4**

**TABLE C-4**

**SOIL SAMPLE SUMMARY FOR DDT GRID IN LOT 203  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB2	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB3	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB4	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB5	7	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides
SB6	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB7	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB8	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB9	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB10	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB11	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB12	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB13	3	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides

**APPENDIX C-4**

**TABLE C-4 (Continued)**

**SOIL SAMPLE SUMMARY DDT FOR GRID IN 203  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB14	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB15	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB16	5	0-0.5	Full TCL Pesticides
		1-3	Full TCL Pesticides
SB17	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB18	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB19	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB20	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB21	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB22	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB23	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB24	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB25	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB26	8.5	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides

**APPENDIX C-4**

**TABLE C-4 (Continued)**

**SOIL SAMPLE SUMMARY DDT FOR GRID IN 203  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB27	7	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides
SB28	7	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB29	9	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides
SB30	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB31	5	0-0.5	Full TCL Pesticides
		3-5	Full TCL Pesticides
SB32	7	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides
SB33	7	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides
SB34	9	0-0.5	Full TCL Pesticides
		5-7	Full TCL Pesticides

**C.5**

**Soil Sampling PCB Grid in Lot 203 - Site 6**

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**APPENDIX C.5**

**TABLE C-5**

**SOIL SAMPLE SUMMARY FOR PCB GRID IN LOT 203  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB2	11	0-0.5	Full TCL PCBs
		7-9	Full TCL PCBs
SB3	9	0-0.5	Full TCL PCBs
		1-3	Full TCL PCBs
		5-7	
SB4	9	0-0.5	Full TCL PCBs
		7-9	Full TCL PCBs
SB5	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB6	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB7	11	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
		7-9	Full TCL PCBs
SB8	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB9	9	0-0.5	Full TCL PCBs
		3-5	Full TCL PCBs
SB10	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB11	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB12	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs
SB13	9	0-0.5	Full TCL PCBs
		5-7	Full TCL PCBs

**APPENDIX C.5**

**TABLE C-5**

**SOIL SAMPLE SUMMARY FOR PCB GRID IN LOT 203  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB14	11	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
		7-9	Full TCL Organics and TAL Inorganics



**C.6**

**Soil Sampling OSA Grid in Lot 203 and Site 82**

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**APPENDIX C.6**

**TABLE C-6**

**SOIL SAMPLE SUMMARY FOR OSA GRID IN LOT 203 AND SITE 82**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	0.5	0-0.5	Full TCL Organics and TAL Inorganics
SB2	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB3	15	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
		11-13	Full TCL Organics and TAL Inorganics
SB4	17	0-0.5	Full TCL Organics and TAL Inorganics
		9-11	Full TCL Organics and TAL Inorganics
		15-17	Full TCL Organics and TAL Inorganics
SB5	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB6	1.5	0-0.5	Full TCL Organics and TAL Inorganics
SB7	2.5	0-0.5	Full TCL Organics and TAL Inorganics
		1-2	Full TCL Organics and TAL Inorganics
SB8	15	0-0.5	Full TCL Organics and TAL Inorganics
		9-11	Full TCL Organics and TAL Inorganics
		13-15	Full TCL Organics and TAL Inorganics
SB9	15	0-0.5	Full TCL Organics and TAL Inorganics
		9-11	Full TCL Organics and TAL Inorganics
		11-13	Full TCL Organics and TAL Inorganics
SB10	15	0-0.5	Full TCL Organics and TAL Inorganics
		7-9	Full TCL Organics and TAL Inorganics
		11-13	Full TCL Organics and TAL Inorganics
SB11	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics

Notes: Soil borings SB1 through SB20 collected from Site 82

- Soil borings 203-SB21 through 203-SB25 were collected during the Phase II investigation.

**APPENDIX C.6**

**TABLE C-6 (Continued)**

**SOIL SAMPLE SUMMARY FOR OSA GRID IN LOT 203 AND SITE 82**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB12	19	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
		15-17	Full TCL Organics and TAL Inorganics
SB13	25	0-0.5	Full TCL Organics and TAL Inorganics
		9-11	Full TCL Organics and TAL Inorganics
		21-23	Full TCL Organics and TAL Inorganics
SB14	7	0-0.05	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB15	15	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
		13-15	Full TCL Organics and TAL Inorganics
SB16	17	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
		15-17	Full TCL Organics and TAL Inorganics
SB17	17	0-0.5	Full TCL Organics and TAL Inorganics
		7-9	Full TCL Organics and TAL Inorganics
		13-15	Full TCL Organics and TAL Inorganics
SB18	18	0-0.5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
		11-13	Full TCL Organics and TAL Inorganics
SB19	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB20	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB21	9	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB22	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics

Notes: Soil borings SB1 through SB20 collected from Site 82

- Soil borings 203-SB21 through 203-SB25 were collected during the Phase II investigation.

**APPENDIX C.6**

**TABLE C-6 (Continued)**

**SOIL SAMPLE SUMMARY FOR OSA GRID IN LOT 203 AND SITE 82**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB23	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB24	7	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB25	5	0.05	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB26	5	0.05	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB27	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB28	9	0-0.5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB-29	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB-30	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB-31	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB32	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB33	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB34	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB35	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics

Notes: Soil borings SB1 through SB20 collected from Site 82  
 - Soil borings 203-SB21 through 203-SB25 were collected during the Phase II investigation.

**APPENDIX C.6**

**TABLE C-6 (Continued)**

**SOIL SAMPLE SUMMARY FOR OSA GRID IN LOT 203 AND SITE 82**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB36	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB37	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB38	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB39	21	0-0.5	Full TCL Organics and TAL Inorganics
		8-10	Full TCL Organics and TAL Inorganics
SB41	11	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
		7-11	Full TCL Organics and TAL Inorganics
SB42	11	0-0.5	Full TCL Organics and TAL Inorganics
SB43	2.5	Composite (0-2.5)	Grain Size Characteristics
SB44	2.5	Composite (0-2.5)	Full TCLP/RCRA Hazardous Waste Characteristics/Engineering Parameters
203-SB21	5	0-0.5	TCL Volatiles
		3-5	TCL Volatiles
203-SB22	9	0-0.5	TCL Volatiles
		7-9	TCL Volatiles
203-SB23	9	0-0.5	TCL Volatiles
		7-9	TCL Volatiles
203-SB24	3	0-0.5	TCL Volatiles
		1-3	TCL Volatiles
203-SB25	3	0-0.5	TCL Volatiles
		1-3	TCL Volatiles

Notes: Soil borings SB1 through SB20 collected from Site 82

- Soil borings 203-SB21 through 203-SB25 were collected during the Phase II investigation.

**C.7**  
**Soil Sampling Ravine Area - Site 6**

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**APPENDIX C.7**

**TABLE C-7**

**SOIL SAMPLING SUMMARY FOR RAVINE AREA  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	2.5	0-0.5	Full TCL Organics and TAL Inorganics
		1-2	Full TCL Organics and TAL Inorganics
SB2	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-2	Full TCL Organics and TAL Inorganics
SB3	6	0-0.5	Full TCL Organics and TAL Inorganics
		1.5-3	Full TCL Organics and TAL Inorganics
		4-5	Full TCL Organics and TAL Inorganics
SB4	10	0-0.5	Full TCL Organics and TAL Inorganics
SB5	3	0-0.5	Full TCL Organics and TAL Inorganics
		1.5-2	Full TCL Organics and TAL Inorganics
SB6	4	0-0.5	Full TCL Organics and TAL Inorganics
		2.5-3	Full TCL Organics and TAL Inorganics
SB7	4	0-0.5	Full TCL Organics and TAL Inorganics
		2.5-3	Full TCL Organics and TAL Inorganics
SB8	3	0-0.5	Full TCL Organics and TAL Inorganics
		2.5-3	Full TCL Organics and TAL Inorganics
SB9	2.5	0-0.5	Full TCL Organics and TAL Inorganics
		2-2.5	Full TCL Organics and TAL Inorganics
SB10	2.3	0-0.5	Full TCL Organics and TAL Inorganics
		1.5-2.5	Full TCL Organics and TAL Inorganics
SB11	3	0-0.5	Full TCL Organics and TAL Inorganics
		2.5-3	Full TCL Organics and TAL Inorganics
SB12	2	0-0.5	Full TCL Organics and TAL Inorganics
		1.5-2	Full TCL Organics and TAL Inorganics
SB13	4	0-0.5	Full TCL Organics and TAL Inorganics
		3.5-4	Full TCL Organics and TAL Inorganics
SB14	2	0-0.5	Full TCL Organics and TAL Inorganics
		0.5-1	Full TCL Organics and TAL Inorganics

**APPENDIX C.7**

**TABLE C-7**

**SOIL SAMPLING SUMMARY FOR RAVINE AREA  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB15	4	0-0.5	Full TCL Organics and TAL Inorganics
		3.5-4	Full TCL Organics and TAL Inorganics
SB16	4	0-0.5	Full TCL Organics and TAL Inorganics
		3.5-4	Full TCL Organics and TAL Inorganics



**C.8**

**Soil Sampling Grid 201N - Site 6**

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**APPENDIX C.8**

**TABLE C-8**

**SOIL SAMPLE SUMMARY FOR PCB GRID 201 N  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB2	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB3	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB4	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB5	9	0-0.5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB6	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB7	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB8	4	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB9	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB10	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB11	17	0-0.5	Full TCL Organics and TAL Inorganics
		13-15	Full TCL Organics and TAL Inorganics
SB12	7	0-0.5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics

**C.9**  
**Soil Sampling Grid 201E - Site 6**

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**APPENDIX C.9**

**TABLE C-9**

**SOIL SAMPLING SUMMARY FOR GRID 201 E  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB2	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB3	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB4	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB5	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB6	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB7	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB8	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB9	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB10	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB11	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB12	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB13	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics

**APPENDIX C.9**

**TABLE C-9 (Continued)**

**SOIL SAMPLING SUMMARY FOR GRID 201 E  
SITE 6**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB14	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB15	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB16	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB17	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB18	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB19	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB20	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB21	3	0-0.5	Full TCL Organics and TAL Inorganics

**C.10**  
**Soil Sampling Grid 201S - Site 6**

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**APPENDIX C.10**

**TABLE C-10**

**SOIL SAMPLE SUMMARY FOR GRID 201 S  
SITE 6**

<b>Sample Location</b>	<b>Depth of Borehole (feet, bgs)</b>	<b>Sampling Intervals (feet, bgs)</b>	<b>Analytical Parameters</b>
SB1	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB2	3	0-0.5	Full TCL Organics and TAL Inorganics
SB3	5	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB4	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB5	3	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB6	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB7	3	0-0.5	Full TCL Organics and TAL Inorganics
SB8	6	0-0.5	Full TCL Organics and TAL Inorganics
SB9	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB10	6	0-0.5	Full TCL Organics and TAL Inorganics
SB11	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics
SB12	5	0-0.5	Full TCL Organics and TAL Inorganics
		1-3	Full TCL Organics and TAL Inorganics

**C.11**

**Soil Sampling Monitoring Well Borings -  
Sites 6 and 82**

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**APPENDIX C.11**

**TABLE C-11**

**SOIL SAMPLING SUMMARY FOR MONITORING WELL BORINGS  
SITES 6 AND 82**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
6GW9	20	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
6GW10	18	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
6GW11	19.5	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
6GW12	18	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
6GW13	18	1-2	Full TCL Organics and TAL Inorganics
		2-4	Full TCL Organics and TAL Inorganics
6GW14	23	4-6	Full TCL Organics and TAL Inorganics
		6-8	Full TCL Organics and TAL Inorganics
6GW15S	20.5	4-6	Full TCL Organics and TAL Inorganics
		6-8	Full TCL Organics and TAL Inorganics
6GW16	20	4-6	Full TCL Organics and TAL Inorganics
		6-8	Full TCL Organics and TAL Inorganics
6GW17	18.5	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
6GW18	19.5	0-2	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
6GW19	20.5	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
6GW20	24	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
6GW21	24	8-10	Full TCL Organics and TAL Inorganics
		14-16	Full TCL Organics and TAL Inorganics

Note that samples collected from: 6GW31, 6GW32, 6GW33, 6GW34, 6GW1DA, 6GW15D, 6GW30D, 6GW35D, 6GW36D, 6GW37D, and 6MW3D were obtained during the Phase II Investigation.

**APPENDIX C.11**

**TABLE C-11 (Continued)**

**SOIL SAMPLING SUMMARY FOR MONITORING WELL BORINGS  
SITES 6 AND 82**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
6GW22	24.5	4-6	Full TCL Organics and TAL Inorganics
		8-10	Full TCL Organics and TAL Inorganics
6GW23	23	4-6	Full TCL Organics and TAL Inorganics
		8-10	Full TCL Organics and TAL Inorganics
6GW25	24	8-10	Full TCL Organics and TAL Inorganics
		10-12	Full TCL Organics and TAL Inorganics
6GW26	20	6-8	Full TCL Organics and TAL Inorganics
		8-10	Full TCL Organics and TAL Inorganics
6GW28S	32	16-18	Full TCL Organics and TAL Inorganics
		18-20	Full TCL Organics and TAL Inorganics
6GW30S	21	4-6	Full TCL Organics and TAL Inorganics
		6-8	Full TCL Organics and TAL Inorganics
6GW1D	117	14-16	Full TCL Organics and TAL Inorganics
		16-18	Full TCL Organics and TAL Inorganics
6GW2D	122	10-12	Full TCL Organics and TAL Inorganics
		12-14	Full TCL Organics and TAL Inorganics
6GW7D	107	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
		6-7	Full TCL Organics and TAL Inorganics
		7-8	Full TCL Organics and TAL Inorganics
6GW28D	112	10-12	Full TCL Organics and TAL Inorganics
		12-14	Full TCL Organics and TAL Inorganics
6GW27D	114.5	18-20	Full TCL Organics and TAL Inorganics
		20-22	Full TCL Organics and TAL Inorganics

Note that samples collected from: 6GW31, 6GW32, 6GW33, 6GW34, 6GW1DA, 6GW15D, 6GW30D, 6GW35D, 6GW36D, 6GW37D, and 6MW3D were obtained during the Phase II Investigation.

**APPENDIX C.11**

**TABLE C-11 (Continued)**

**SOIL SAMPLING SUMMARY FOR MONITORING WELL BORINGS  
SITES 6 AND 82**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
6GW31	25.5	10-12	TCL Volatiles
		12-14	TCL Volatiles
6GW32	27	10-12	TCL Volatiles
		12-14	TCL Volatiles
6GW33	22	6-8	TCL Volatiles
		10-12	TCL Volatiles
6GW34	35	18-20	TCL Volatiles
		22-24	TCL Volatiles
6GW1DA	236.5	12-14	TCL Volatiles
		14-16	TCL Volatiles
6GW15D	160	4-6	TCL Volatiles
		10-12	TCL Volatiles
		12-14	TCL Volatiles
6GW30D	161.9	4-6	TCL Volatiles
		6-8	TCL Volatiles
		8-10	TCL Volatiles
6GW35D	201	4-6	TCL Volatiles
		6-8	TCL Volatiles
6GW36D	201.5	4-6	TCL Volatiles
		6-8	TCL Volatiles
6GW37D	111.5	4-6	TCL Volatiles
		6-8	TCL Volatiles
6GW3D	201.5	2-4	TCL Volatiles
		4-6	TCL Volatiles

Note that samples collected from: 6GW31, 6GW32, 6GW33, 6GW34, 6GW1DA, 6GW15D, 6GW30D, 6GW35D, 6GW36D, 6GW37D, and 6MW3D were obtained during the Phase II Investigation.

**C.12**  
**Soil Sampling - Site 9 Soil Borings**

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**APPENDIX C.12**

**TABLE C-12**

**SOIL SAMPLE SUMMARY FOR SITE 9 SOIL BORINGS**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB1	9	0-0.5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB2	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB3	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB4	9	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB5	9	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB6	9	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB7	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB8	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB9	7	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB10	9	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB11	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB12	7	0-0.5	TPH 418.1
		3-5	TPH 418.1

**APPENDIX C.12**

**TABLE C-12 (Continued)**

**SOIL SAMPLE SUMMARY FOR SITE 9 SOIL BORINGS**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB13	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB14	7	0-0.05	TPH 418.1
		3-5	TPH 418.1
SB15	7	0-0.5	Full TCL Organics and TAL Inorganics
		3-5	Full TCL Organics and TAL Inorganics
SB16	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB17A	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB18B	6	Composite (0-6)	Grain Size Characteristics
SB19C	8	Composite (0-6)	Full TCLP/RCRA Hazardous Waste Characteristics/Engineering Parameters
SB18	7	0-0.5	TPH 418.1
		3-5	TPH 481.1
SB19	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB20	7	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB21	9	0-0.5	Full TCL Organics and TAL Inorganics
		7-9	Full TCL Organics and TAL Inorganics
SB22	11	1-3	TPH 418.1
		7-9	TPH 418.1
SB23	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB24	9	1-3	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics

**APPENDIX C.12**

**TABLE C-12 (Continued)**

**SOIL SAMPLE SUMMARY FOR SITE 9 SOIL BORINGS**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB25	11	1-3	TPH 418.1
		5-7	TPH 418.1
SB26	7	0.05	TPH 418.1
		3-5	TPH 418.1
SB27	9	1-3	TPH 418.1
		5-7	TPH 418.1
SB28	9	1-3	TPH 418.1
		5-7	TPH 418.1
SB-29	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB-30	7	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB-31	7	1-3	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB32	7	1-3	TPH 418.1
		5-7	TPH 418.1
SB33	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB34	7	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB35	9	0-0.5	Full TCL Organics and TAL Inorganics
		5-7	Full TCL Organics and TAL Inorganics
SB36	7	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB37	7	0-0.5	TPH 418.1
		5-7	TPH 418.1
SB38	7	0-0.5	TPH 418.1
		5-7	TPH 418.1

**APPENDIX C.12**

**TABLE C-12 (Continued)**

**SOIL SAMPLE SUMMARY FOR SITE 9 SOIL BORINGS**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
SB39	7	0-0.5	TPH 418.1
		3-5	TPH 418.1
SB40	1	0-0.5	TPH 418.1
SB41	1	0-0.5	TPH 418.1
SB42	1	0-0.5	TPH 418.1
SB43	1	0-0.5	Full TCL Organics and TAL Inorganics
SB44	1	0-0.5	TPH 418.1
SB45	1	0-0.5	TPH 418.1
SB46	1	0-0.5	TPH 418.1
SB47	1	0-0.5	TPH 418.1
SB48	1	0-0.5	THP 418.1
SB49	1	0-0.5	TPH 418.1
SB50	1	0-0.5	TPH 418.1
SB51	1	0-0.5	TPH 418.1
SB52	1	0-0.5	TPH 418.1
SB53	1	0-0.5	TPH 418.1
SB54	1	0-0.5	Full TCL Organics and TAL Inorganics
SB55	1	0-0.5	TPH 418.1
SB56	1	0-0.5	TPH 418.1
SB57	1	0-0.5	TPH 418.1



**C.13**

**Soil Sampling - Site 9 Monitoring Well Borings**

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**APPENDIX C.13**

**TABLE C-13**

**SOIL SAMPLING SUMMARY FOR MONITORING WELL BORINGS  
SITE 9**

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
9GW4	21.3	6-8	Full TCL Organics and TAL Inorganics
		8-10	Full TCL Organics and TAL Inorganics
9GW5	19.5	2-4	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
0GW6	20.2	2-4	Full TCL Organics and TAL Inorganics
		6-8	Full TCL Organics and TAL Inorganics
9GW7S	22	4-6	Full TCL Organics and TAL Inorganics
		6-8	Full TCL Organics and TAL Inorganics
9GW7D	110	4-6	Full TCL Organics and TAL Inorganics
		6-8	Full TCL Organics and TAL Inorganics
9GW8	19	1-2	Full TCL Organics and TAL Inorganics
		4-6	Full TCL Organics and TAL Inorganics
		6-19	Grain Size Characteristics

**Appendix D**  
**Field Test Boring Records and Test Pit Records**

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**D.1**  
**Grid 201A**

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# TEST BORING LOG LEGEND

<u>SOIL DESCRIPTION</u>	<u>ROCK DESCRIPTIONS</u>																																																																																									
<p style="text-align: center;"><b><u>GRAIN SIZE IDENTIFICATION</u></b></p> <table style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>NAME</u></th> <th style="text-align: left;"><u>SIZE LIMITS</u></th> </tr> </thead> <tbody> <tr><td>Boulder</td><td>12" OR MORE</td></tr> <tr><td>Cobbles</td><td>3" - 12"</td></tr> <tr><td>Coarse Gravel</td><td>3/4" - 3"</td></tr> <tr><td>Fine Gravel</td><td>4.76 mm (#4) - 3/4"</td></tr> <tr><td>Coarse Sand</td><td>2 mm (#10) - 4.76 mm (#4)</td></tr> <tr><td>Medium Sand</td><td>0.42 mm (#40) - 2 mm (#10)</td></tr> <tr><td>Fine Sand</td><td>0.074 mm (#200)-0.42 mm (#40)</td></tr> <tr><td>Silt</td><td>0.002 mm-0.074 mm (#200)</td></tr> <tr><td>Clay</td><td>Less than 0.002 mm</td></tr> </tbody> </table> <p style="text-align: center;"><b><u>RELATIVE DENSITY</u></b></p> <table style="width: 100%;"> <thead> <tr> <th colspan="2" style="text-align: center;"><b><u>NONCOHESIVE SOIL</u></b></th> </tr> <tr> <th style="text-align: left;"><u>TERM</u></th> <th style="text-align: left;"><u>SPT (Blows/ft)</u></th> </tr> </thead> <tbody> <tr><td>Very Loose</td><td>Below 4</td></tr> <tr><td>Loose</td><td>4-10</td></tr> <tr><td>Medium Dense</td><td>10-30</td></tr> <tr><td>Dense</td><td>30-50</td></tr> <tr><td>Very Dense</td><td>OVER 50</td></tr> </tbody> </table> <table style="width: 100%;"> <thead> <tr> <th colspan="2" style="text-align: center;"><b><u>COHESIVE SOILS</u></b></th> </tr> <tr> <th style="text-align: left;"><u>TERM</u></th> <th style="text-align: left;"><u>SPT (Blows/ft)</u></th> </tr> </thead> <tbody> <tr><td>Very Soft</td><td>BELOW 2</td></tr> <tr><td>Soft</td><td>2-4</td></tr> <tr><td>Medium Stiff</td><td>4-8</td></tr> <tr><td>Stiff</td><td>8-15</td></tr> <tr><td>Very Stiff</td><td>15-30</td></tr> <tr><td>Hard</td><td>OVER 30</td></tr> </tbody> </table> <table style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>MOISTURE</u></th> <th colspan="2" style="text-align: left;"><u>DESCRIPTIVE TERMS</u></th> </tr> </thead> <tbody> <tr><td>Dry</td><td>Trace</td><td>0-10%</td></tr> <tr><td>Damp</td><td>Little</td><td>10-20%</td></tr> <tr><td>Moist</td><td>Some</td><td>20-35%</td></tr> <tr><td>Wet</td><td>with = And</td><td>35-50%</td></tr> </tbody> </table>	<u>NAME</u>	<u>SIZE LIMITS</u>	Boulder	12" OR MORE	Cobbles	3" - 12"	Coarse Gravel	3/4" - 3"	Fine Gravel	4.76 mm (#4) - 3/4"	Coarse Sand	2 mm (#10) - 4.76 mm (#4)	Medium Sand	0.42 mm (#40) - 2 mm (#10)	Fine Sand	0.074 mm (#200)-0.42 mm (#40)	Silt	0.002 mm-0.074 mm (#200)	Clay	Less than 0.002 mm	<b><u>NONCOHESIVE SOIL</u></b>		<u>TERM</u>	<u>SPT (Blows/ft)</u>	Very Loose	Below 4	Loose	4-10	Medium Dense	10-30	Dense	30-50	Very Dense	OVER 50	<b><u>COHESIVE SOILS</u></b>		<u>TERM</u>	<u>SPT (Blows/ft)</u>	Very Soft	BELOW 2	Soft	2-4	Medium Stiff	4-8	Stiff	8-15	Very Stiff	15-30	Hard	OVER 30	<u>MOISTURE</u>	<u>DESCRIPTIVE TERMS</u>		Dry	Trace	0-10%	Damp	Little	10-20%	Moist	Some	20-35%	Wet	with = And	35-50%	<p style="text-align: center;"><b><u>HARDNESS</u></b></p> <p>Very Soft - Easily gouged by knife, easily scratched by fingernail, easily broken by hand</p> <p>Soft - Gouged by knife, scratched by fingernail, difficult to break by hand, powders with hammer</p> <p>Medium Hard - Easily scratched by knife, easily broken with hammer</p> <p>Hard - Difficult to scratch, breaks with hammer</p> <p>Very Hard - Difficult to break, rings when struck</p> <p style="text-align: center;"><b><u>WEATHERING</u></b></p> <p>Decomposed - Soft to Very soft, bedding and fractures indistinct, no cementation.</p> <p>Highly Weathered - Very soft to soft, with medium hard relict rock fragments; little to moderate cementation. Vugs, openings in bedding and fractures (may be filled).</p> <p>Weathered - Soft to medium hard. Good cementation, bedding and fractures are pronounced. Uniformly stained.</p> <p>Slightly Weathered - Medium hard. Fractures pronounced, non-uniform staining, bedding distinct.</p> <p>Fresh - Medium hard to hard. No staining. Fractures may be present. Bedding may or may not be indistinct.</p> <p style="text-align: center;"><b><u>BEDDING AND FRACTURES:</u></b></p> <table style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>SPACING</u></th> <th style="text-align: left;"><u>BEDDING</u></th> <th style="text-align: left;"><u>FRACTURES</u></th> </tr> </thead> <tbody> <tr><td>LESS THAN 1/2" (1 cm)</td><td>Indistinct</td><td>Fissile</td></tr> <tr><td>1/2" to 1" (1cm-3cm)</td><td>Laminated</td><td>Very Close</td></tr> <tr><td>1" TO 4" (3cm-10cm)</td><td>Very Thin</td><td>Close</td></tr> <tr><td>4" TO 1' (10cm-30cm)</td><td>Thin</td><td>Moderate</td></tr> <tr><td>1' TO 3' (30 cm-1m)</td><td>Moderate</td><td>Wide</td></tr> <tr><td>3' TO 10' (1m-3m)</td><td>Thick</td><td>Very Wide</td></tr> <tr><td></td><td>Massive</td><td></td></tr> </tbody> </table>	<u>SPACING</u>	<u>BEDDING</u>	<u>FRACTURES</u>	LESS THAN 1/2" (1 cm)	Indistinct	Fissile	1/2" to 1" (1cm-3cm)	Laminated	Very Close	1" TO 4" (3cm-10cm)	Very Thin	Close	4" TO 1' (10cm-30cm)	Thin	Moderate	1' TO 3' (30 cm-1m)	Moderate	Wide	3' TO 10' (1m-3m)	Thick	Very Wide		Massive	
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<p style="text-align: center;"><b><u>CONTACTS:</u></b></p> <p>_____ = DEFINITE</p> <p>_____ = INDEFINITE</p> <p>..... = GRADATIONAL</p>	<p style="text-align: center;"><b><u>SAMPLE TYPE</u></b></p> <p>S = Split Spoon  T = Shelby Tube  R = Air Rotary  D = Denison  A = Auger  W = Wash (Roller Bit)  C = Core  P = Piston  N = No Sample Taken</p> <p style="text-align: center;"><b><u>ABBREVIATIONS</u></b></p> <p>HS = Hollow Stem  NP = Non Plastic  -PL = Below the Plastic Limit  PL = At the Plastic Limit  +PL = Above the Plastic Limit  +LL = Above the Liquid Limit  SPT = Standard Penetration Test  RQD = Rock Quality Designation</p>																																																																																									

## FIELD TEST BORING RECORD

PROJECT: Site 6 Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#1  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	3/8" ID		3/4" ID		8-28-92	5'	cloudy/humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		S1 A-N				HUMUS silty loam w/ some sand	Dk Gray	Loose	Damp Root material		
2		S2	1.3 / 2.0	5		SAND fine grained w/ trace silt	Black to dk. Brown to yellow Brown	medium dense	Moist		
3			65%	12	1.3						
4		S3	1.1 / 2.0	4		END of Boring 5'	lite Brown	medium dense	Wet		
5			55%	6	1.3						
6				8							
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB#2 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 2

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-22-92</u>	<u>5'</u>	<u>cloudy/humid</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		<u>S1</u> <u>AN</u>				<u>Humus silt loam w/ some sand</u>	<u>DK gray</u>	<u>Loose</u>	<u>Damp Root &amp; Plant material</u>		
2		<u>S2</u>	<u>1.6</u> <u>2.0</u>	<u>4</u> <u>4</u>		<u>SAND fine grained w/ trace silt</u>	<u>Black to Brown to yellow Brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>80%</u>	<u>3</u>							
4		<u>S3</u>	<u>1.4</u> <u>2.0</u>	<u>3</u> <u>1</u>			<u>lite Brown</u>	<u>medium dense</u>	<u>wet</u>		
5			<u>70%</u>	<u>12</u>		<u>END of Boring 5'</u>					<u>5'</u> <u>Water 4 1/2'</u>
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.

BORING NO.: SB # 2 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #3

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>5'</u>	<u>cloudy/humid</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split-spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type - No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	MMW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>				<u>13</u>	<u>HUMUS silty loam w/ sand</u>	<u>DK gray</u>	<u>Loose</u>	<u>Damp Root &amp; Plant material</u>		
2		<u>S2</u>	<u>.6/20</u>	<u>4</u>		<u>13</u>	<u>SAND fine grained w/ trace silt</u>	<u>DK Brown to yellow Brown to lite Brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>30%</u>	<u>5</u>								
4		<u>S3</u>	<u>1.3/20</u>	<u>6</u>		<u>13</u>		<u>lite Brown</u>	<u>medium dense</u>	<u>Wet</u>		
5			<u>65%</u>	<u>7</u>								
6				<u>13</u>			<u>END of Boring</u>					<u>5'</u>
7												<u>water 4 1/2</u>
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr

BORING NO.: SB #3 SHEET 1 OF 1



## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A RIFFS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #4

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>5'</u>	<u>overcast / humid</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples. Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL / ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Hum. PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
		Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1 A-N</u>				<u>1.2</u>	<u>HUMUS silty loam w/ some sand</u>	<u>OK Gray</u>	<u>Loose</u>	<u>Damp Root &amp; Plant material</u>		
2		<u>S2</u>	<u>1.5 / 20</u>	<u>54</u>		<u>1.2</u>	<u>SAND fine to medium grained w/ trace silt</u>	<u>Black to OK Brown to yellow/ Brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>75%</u>	<u>57</u>								
4		<u>S3</u>	<u>1.3 / 20</u>	<u>24</u>		<u>1.2</u>		<u>lite Brown</u>	<u>medium dense</u>	<u>Wet</u>		
5			<u>65%</u>	<u>13</u>			<u>END of Boring</u>					<u>5'</u>
6												
7												
8												
9												
10												<u>water 4 1/2</u>

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman  
 BORING NO.: SB #4 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 5

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-26-92</u>	<u>5'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	K <sub>nu</sub> PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1 A-N</u>				<u>1.5</u>	<u>SILT w/sand</u>	<u>dk gray</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>S2</u>	<u>1.5/20</u>	<u>7</u>		<u>1.4</u>	<u>SAND fine grained w/ some organic material</u>	<u>lt gray</u>	<u>medium dense</u>	<u>Moist organic laminations</u>		<u>1.5'</u>
3			<u>75%</u>	<u>5</u>			<u>organic material</u>	<u>dk gray</u>				<u>1.8'</u>
4		<u>S3</u>	<u>1.4/20</u>	<u>3</u>		<u>1.4</u>	<u>SAND fine grained w/ little silt</u>	<u>lt brown to dk gray</u>	<u>Loose</u>	<u>Wet</u>		<u>2.3'</u>
5			<u>70%</u>	<u>6</u>								<u>3'</u>
6							<u>END of Boring</u>					<u>5'</u>
7												
8												
9												
10												<u>Water 5'</u>

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.

BORING NO.: SB # 5 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #6

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-26-92</u>	<u>7'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type-No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						
1		<u>N</u>				<u>No Recovery</u>					<u>5'</u>
2		<u>A-N</u>				<u>SAND fine grained w/ trace silt</u>	<u>lite brown to dk gray</u>	<u>medium dense</u>	<u>Moist</u>		
3		<u>S1</u>	<u>1.4/20</u>	<u>8</u>	<u>1.4</u>						
4		<u>S2</u>	<u>70%</u>	<u>8</u>							
5		<u>S2</u>	<u>1.1/20</u>	<u>6</u>	<u>1.4</u>		<u>lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
6		<u>S3</u>	<u>55%</u>	<u>14</u>							
7		<u>S3</u>	<u>1.3/20</u>	<u>8</u>	<u>1.4</u>		<u>lite gray</u>	<u>medium dense</u>	<u>Wet</u>		<u>Water 6'</u>
8			<u>65%</u>	<u>12</u>		<u>END of Boring</u>					<u>7'</u>
9				<u>11</u>							
10											

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.

BORING NO.: \_\_\_\_\_ SB #6 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 6 Lot 201 Area A RIFS Camp Lejeune  
 S.O. NO.: 19/33 BORING NO.: SB # 7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3/4" ID		8-26-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.4	SILT w/ some sand	Buff	Loose	Dry Gravel		.5'
2		S2	1.4/20	7			SAND fine grained w/ trace silt	yellow/orange to lite gray	medium dense	Moist		
3			70%	8		1.6						
4		S3	1.6/20	4		1.4		yellow/brown to lite gray	medium dense	Moist		
5			80%	6								
6		S4	1.5/20	3		1.3		lite gray	medium dense	Wet		
7			75%	000000			END OF Boring 7'					7' water 6'
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman  
 BORING NO.: SB # 7 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Site 6 lot 201B RI/FS Camp Lyons  
 S.O. NO.: \_\_\_\_\_ BORING NO.: SB 7A  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>NA</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)					<u>9-25-92</u>	<u>3</u>	<u>Overcast 75°</u>	<u>/</u>	<u>/</u>
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring with hand auger to 3', taking continuous samples every 6 inch interval. Note sample location more 10' N of original location.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
		Type No. (N = No Samp.)		RQD (FL & %)	Pen. Rate						
1		HA1				Silt and fine sand	Dark gray		dry damp		
		HA2				fine sand, little silt	black		NOTE Pent at 1.75' - 2.0'		
		HA3				organic silt, some sand					
2		HA4									
		HA5				fine sand and silt	brown buff				
3		HA6				fine sand, little silt			Water at 3'		
4						End of Boring at 3'					
5											
6											
7											
8											
9											
10											

DRILLING CO.: NA  
 DRILLER: NA

BAKER REP.: D. J. Martin  
 BORING NO.: SB 7A SHEET 1 OF 1

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A RIFs Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		8-26-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSR						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
		Type-No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						Moist. PID (ppm)
1		S1 A-N				SILT w/ sand	Buff	Loose	Dry trace gravel		
2		S2	1 1/4 / 20	5		SAND fine grained w/ trace silt	yellow/orange to lite gray	medium dense	Moist		
3			70%	6						1.4	
4		S3	1 1/2 / 20	3		SAND fine grained w/ trace silt	yellow brown	medium dense	Moist		
5			75%	4						1.2	
6		S4	1 1/2 / 20	3		SAND fine grained w/ trace silt	lite brown to lite gray	medium dense	Wet		
7			75%	6						1.1	
8						END of Boring					
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB # 8 SHEET 1 OF 1

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A RIFs Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 9  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	3/8" ID		3/4" ID		8-26-92	7'	sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION						
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION		
				RQD (Ft. & %)	Pen. Rate							HMW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)
1		S1 A-N				SILT w/ some sand	Buff	Loose	Dry Gravel		5'		
2		S2	1.5/20	12		SAND fine grained w/ trace silt	Yellow/Brown	medium dense	Moist				
3			75%	14	1.1								
4		S3	1.4/20	8						1.0	Dk. Brown	medium dense	Moist
5			70%	11									
6		S4	1.3/20	10		END of Boring		medium dense	Wet				
7			65%	18	.9						Yellow/brown to brown		
8													
9													
10													

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: SB # 9 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H5A</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	ANAL. PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
		<u>S1</u>				<u>10</u>	<u>HUMUS silty loam w/ some sand</u>	<u>dk. gray</u>	<u>Loose</u>	<u>Damp Root &amp; Plant material</u>	
<u>1</u>		<u>R-N</u>									
<u>2</u>		<u>S2</u>	<u>1.3/2.0</u>	<u>16</u>		<u>11</u>	<u>SAND fine to medium grained w/ trace silt</u>	<u>Brown to lite Brown</u>	<u>medium dense</u>	<u>Moist</u>	
<u>3</u>			<u>65%</u>	<u>9</u>							
<u>4</u>		<u>S3</u>	<u>1.2/2.0</u>	<u>4</u>		<u>11</u>		<u>lite Brown</u>	<u>medium dense</u>	<u>Wet</u>	
<u>5</u>			<u>60%</u>	<u>6</u>							<u>5'</u>
<u>6</u>							<u>END of boring</u>				<u>Water 4 1/2</u>
<u>7</u>											
<u>8</u>											
<u>9</u>											
<u>10</u>											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: SB # 10 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site G

PROJECT: Lot 201 Area A RIFs Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 11

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		8-28-92	5'	overcast/humid		
LENGTH	2'		5'						
TYPE	STD		HSK						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION							
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION			
				RQD (Ft. & %)	Pen. Rate							Hum. PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color
1		S1 A-N				1, 2 HUMUS silty loam w/ some sand	dk Gray	Loose	Damp Root / Plant material Gravel					
2		S2	1.4 / 2.0	10		SAND fine to medium grained w/ trace silt	Brown to lite Brown	medium dense	Moist					
3			70%	11	1, 1									
4		S3	1.3 / 2.0	7							lite Brown	medium dense	Wet	
5			65%	14		1, 1								
5				16										
6						END of Boring 5'								
7														
8														
9														
10														

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E Zimmerman, Jr.  
 BORING NO.: SB # 11 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB#12

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>5'</u>	<u>overcast / humid</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N	1.5	11		1.1	HUMUS silty loam w/ some sand	dk. gray	loose	Damp Gravel f Root material		
2		S2	2.0	10		1.1	SAND fine to medium grained w/ trace silt	Brown to lite Brown	medium dense	Moist		
3			75%	13								
4		S3	1.4	4		1.1		lite Brown	medium dense	Wet		
5			2.0	4								
5			70%	11								5' water 4 1/2'
6							END of Boring					
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J.E. Zimmerman, Jr.

DRILLER: Terry Mize

BORING NO.: SB#12 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#13  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3/4" ID		8-26-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		S1 A-N				SILT w/ some sand	Buff	Loose	Dry		5'
2		S2	1.4/20	100		SAND fine grained w/ trace silt	lite gray to v. dk. Brown	medium dense	Moist		
3		S3	70%	9			v. dk Brown to lite Brown	medium dense	Wet		
4			1.3/2.0	4							water 4'
5			65%	100		END of Boring 5'					5'
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman  
 BORING NO.: SB#13 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A RIFs Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB#14

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-26-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		<u>S1</u> <u>A-N</u>				<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry</u>		<u>5'</u>
2		<u>S2</u>	<u>1 1/2</u> <u>20</u>	<u>7</u> <u>9</u> <u>1</u>		<u>SAND fine grained</u> <u>w/ trace silt</u>	<u>lite gray</u> <u>to</u> <u>dk. Brown</u>	<u>medium</u> <u>dense</u>	<u>Moist</u>		
3		<u>S3</u>	<u>55%</u> <u>10</u> <u>20</u>	<u>10</u> <u>11</u> <u>12</u> <u>13</u> <u>14</u> <u>15</u> <u>16</u> <u>17</u> <u>18</u> <u>19</u> <u>20</u>		<u>SAND fine to medium</u> <u>grained w/ trace</u> <u>silt</u>	<u>lite</u> <u>Brown</u>	<u>Loose</u>	<u>Wet</u> <u>Gravel</u>		<u>3'</u>
4			<u>50%</u>			<u>END of Boring</u> <u>5'</u>					<u>5'</u>
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc

BAKER REP.: J. E. Zimmerman, Jr

DRILLER: Terry Mize

BORING NO.: SB#14 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A RIFs Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #15

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-26-92</u>	<u>5'</u>	<u>SUNNY/WARM</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	HWID PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>				<u>.9</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry</u>		
2		<u>S2</u>	<u>2.0 / 2.0</u>	<u>56</u>		<u>1.0</u>	<u>SAND fine grained w/ trace silt</u>	<u>yellow/brown to light gray to black</u>	<u>Loose</u>	<u>Moist</u>		
3			<u>100%</u>	<u>31</u>						<u>organic material (roots)</u>		
4			<u>1.5 / 2.0</u>	<u>11</u>		<u>1.0</u>		<u>dk. brown</u>	<u>Loose</u>	<u>Wet</u>		<u>water 4'</u>
5			<u>75%</u>	<u>11</u>			<u>END of Boring</u>					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc

BAKER REP.: J. E. Zimmerman, Jr

DRILLER: Terry Mize

BORING NO.: Area A SB#15 SHEET 1 OF 1

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB#16

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3/4" ID		8-26-92	5'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION ROCK
		Type - No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HMW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1 A-N				1.0	SILT w/ some sand	Buff	Loose	Dry	5'
2		S2	1.3/20	100		.9	SAND fine grained w/ trace silt	lt to dk brown to dk gray	medium dense	Moist	
3		S3	65%	50							
4			1.4/20	mm		1.0		dk brown to lt brown	Loose	Wet	
5			70%				END OF Boring				5'
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, JR.  
 BORING NO.: SB#16 SHEET 1 OF 1

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Leicune  
 S.O. NO.: 19133 BORING NO.: SB #17  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		8-26-92	5'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MNA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.0	SILT w/ some sand	Buff	Loose	Dry Trace gravel		
2		S2	1.6 2.0	100		3.9	SAND fine grained w/ trace silt	lite Brown to Black	medium dense	Moist		
3		S3	80%	100			SAND and silt w/ some clay	lite Brown to lite gray	stiff	Moist		
4			1.4 2.0	2		1.5				to Wet		
5			70%	10			END of boring 5'					water 4 1/2'
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB #17 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: GSB17A  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3.25" ID</u> <u>2.75" ID</u>		<u>10-13-92</u>	<u>0-8'</u>	<u>Clear, Cool</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>S-D</u>		<u>U.S.A.</u>						
HAMMER WT.	<u>140#</u>								
ALL	<u>30"</u>								
W/CK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (FL & %)							
1		S-1	1.5 2.0	5 9		SAND, medium to fine grained, little silt	brown	medium dense	damp		
2			75%	7							2.0
3		S-2	1.7 2.0	5 3		SILT, little sand	brown	medium STIFF	damp		
4			85%	7							3.5
5		S-3	1.9 2.0	3 11		SAND, fine grained, some silt	Tan	medium dense	damp		
6			95%	14			White				
7		S-4	1.9 2.0	7 19		Sand, medium grained, little silt	White	dense	Wet, groundwater at 8.0'		
8			95%	22							8.0
9						End of Boring at 8.0 FEET					
10											

DRILLING CO.: Hardin Huber Inc BAKER REP.: J. Culp  
 DRILLER: A. Allen BORING NO.: GSB17A SHEET 1 OF 1



## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SR #18

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-26-92</u>	<u>5'</u>	<u>SUNNY/WARM</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	MNA PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>				<u>1.9</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>A-N</u>		<u>10</u>			<u>SAND fine grained w/ trace silt</u>	<u>light Brown to black to light gray</u>	<u>medium dense</u>	<u>Moist</u>		
3		<u>S2</u>		<u>10</u>								
4		<u>S3</u>		<u>10</u>				<u>Brown to light Brown</u>	<u>medium dense</u>	<u>Wet</u>		
5							<u>END of Boring</u>					<u>5'</u>
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J. E. Zimmerman, Jr.

DRILLER: Terry Mize

BORING NO.: SR #18 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lajune

S.O. NO.: 19133

BORING NO.: SB # 19

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	2'		5'		8-27-92	5'	Sunny/Warm		
TYPE	STD		H5K						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
1		S1				SILT w/ some sand	Buff	Loose	Dry Gravel		5'
2		A-N	1.4/2.0	8		SAND fine grained w/ trace silt	lite Brown to lite gray	medium dense	Moist		
3		S2	70%	9	1.6						
4		S3	1.4/2.0	3				Dk Brown to lite Brown	Loose	Wet	
5			70%	4	5						5'
6				6		END of Boring					
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
BORING NO.: SB # 19 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 20

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H5K</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HWA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S1</u>				<u>1.6</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>DRY Gravel</u>	
2		<u>S2</u>	<u>15/20</u>	<u>7</u>		<u>1.6</u>	<u>SAND fine grained w/ trace silt</u>	<u>lt to dk brown to gray</u>	<u>medium dense</u>	<u>Moist</u>	
3			<u>75%</u>	<u>10</u>				<u>dk gray</u>			
4			<u>13/20</u>	<u>5</u>		<u>1.6</u>		<u>dk brown to lt brown</u>	<u>medium dense</u>	<u>wet</u>	
5			<u>65%</u>	<u>7</u>			<u>END of Boring</u>				<u>Water 4 1/2'</u>
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
BORING NO.: Area A SB# 20 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 21

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate						
1		<u>S1</u>				<u>SILT w/ some sand</u>	<u>buff</u>	<u>Loose</u>	<u>DRY Gravel</u>		<u>5'</u>
2		<u>S2</u>	<u>1.3/2.0</u>	<u>80 FT</u>		<u>SAND fine grained w/ trace silt</u>	<u>lite brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>65%</u>								
4		<u>S3</u>	<u>1.3/2.0</u>	<u>200 FT</u>			<u>lite brown</u>	<u>Loose</u>	<u>Wet</u>		
5			<u>65%</u>	<u>500 FT</u>		<u>END of Boring</u>					<u>5'</u>
6											
7											
8											
9											
10											

water 4 1/2

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.

BORING NO.: SB # 21 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 22  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H5A</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
		Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						#Nu. PID (ppm)
1		<u>S1</u>				<u>SILT w/some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>	<u>5'</u>	
2		<u>S2</u>	<u>1.4 / 20%</u>	<u>7</u>		<u>SAND fine grained w/trace silt</u>	<u>lite brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>70%</u>	<u>4</u>							
4		<u>S3</u>	<u>1.5 / 2.0%</u>	<u>4</u>			<u>DK brown to lite gray</u>	<u>medium dense</u>	<u>Wet</u>		
5			<u>75%</u>	<u>4</u>						<u>5'</u>	
6						<u>END of Boring</u>				<u>Water 4 1/2</u>	
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: SB # 22 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 23

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H5A</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	MWD (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>1.5</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>S2</u>	<u>1.3 / 2.0</u>	<u>7</u>		<u>1.5</u>	<u>SAND fine grained w/ trace silt</u>	<u>lite brown to lite gray to dk. brown</u>	<u>medium dense</u>	<u>Moist</u>		
3		<u>S3</u>	<u>1.3 / 2.0</u>	<u>7</u>		<u>1.5</u>						
4			<u>65%</u>	<u>7</u>								
5			<u>65%</u>	<u>7</u>			<u>END of Boring</u>					<u>5'</u>
6												<u>Water 4 1/2'</u>
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.

BORING NO.: \_\_\_\_\_ SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/F5 Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 24

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H5A</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	ANAL. PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				112	SILT w/ some sand	Buff	Loose	Dry Gravel		5'
2		S2	1.2/20 60%	6 7 13 14		113	SAND fine grained w/ trace silt	dk. gray to lite gray	medium dense	Moist		
3		S3	1.3/2.0 65%	4 5 6 5		113		lite gray to yellow brown	medium dense	Wet		
4							END OF Boring					5'
5												water 4 1/2
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc  
DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.  
BORING NO.: SB # 24 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 201 Area A R1/FS Camp Lajune

S.O. NO.: 19133

BORING NO.: SB # 25

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	ANU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>1.3</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>A-N</u>	<u>1.4</u>	<u>20</u>		<u>1.3</u>	<u>SAND fine grained w/ trace silt</u>	<u>lite Brown to lite gray to dk Brown</u>	<u>medium dense</u>	<u>Moist</u>		
3		<u>S2</u>	<u>70%</u>									
4		<u>S3</u>	<u>1.1</u>	<u>20</u>		<u>1.3</u>			<u>medium dense</u>	<u>Wet</u>		
5			<u>55%</u>	<u>10</u>			<u>END of Boring</u>					<u>5'</u> <u>Water 4 1/2</u>
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc  
DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
BORING NO.: SB # 25 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 26  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H5A</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	MN% PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>1.2</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>S2</u>	<u>1.5 / 20</u>	<u>9</u>		<u>1.1</u>	<u>SAND fine grained w/ trace silt</u>	<u>lite brown to lite gray to dk brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>75%</u>	<u>7</u>								
4			<u>1.1 / 20</u>	<u>5</u>		<u>1.1</u>		<u>lite brown to lite gray</u>	<u>medium dense</u>	<u>Wet</u>		
5			<u>55%</u>	<u>6</u>			<u>END OF BORING</u>					<u>water 4 1/2'</u>
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: Area A SB# 26 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 27  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
		Type No. (N = No Samp.)		Pen. Rate						HW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)
		<u>S1</u>			<u>SILT w/some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>DRY Gravel</u>			
1		<u>A-N</u>									
2		<u>S2</u>	<u>14/2.0</u>	<u>LN</u>	<u>SAND fine grained w/trace silt</u>	<u>light brown to gray</u>	<u>medium dense</u>	<u>Moist</u>			
3			<u>70%</u>	<u>LN</u>							
4			<u>16/2.0</u>	<u>LN</u>		<u>light brown to gray</u>	<u>Loose</u>	<u>Wet</u>			
5			<u>80%</u>	<u>LN</u>					<u>Water 1/2</u>		
6					<u>END of Boring</u>						
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Area A SB# 27 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 28

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MND PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		<u>S1</u>				<u>1.0</u>	<u>SILT w/ some sand</u>	<u>yellow/ buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
<u>1</u>		<u>A-N</u>					<u>SAND fine grained w/ trace silt</u>	<u>lite brown to lite gray to</u>	<u>medium dense</u>	<u>moist</u>		
<u>2</u>			<u>1.0 / 2.0</u>	<u>10</u>		<u>1.0</u>		<u>DK Brown to lite gray to</u>	<u>medium dense</u>			
<u>3</u>			<u>50%</u>	<u>10</u>				<u>DK Brown to lite gray</u>	<u>medium dense</u>			
<u>4</u>		<u>S3</u>	<u>1.0 / 2.0</u>	<u>MUNT</u>		<u>1.0</u>		<u>DK Brown to lite gray</u>	<u>medium dense</u>		<u>moist</u>	
<u>5</u>			<u>50%</u>	<u>MUNT</u>				<u>DK Brown to lite gray</u>	<u>medium dense</u>			
<u>6</u>			<u>1.2 / 2.0</u>	<u>3700</u>		<u>1.0</u>		<u>DK Brown to lite gray</u>	<u>medium dense</u>		<u>wet</u>	
<u>7</u>			<u>60%</u>	<u>0</u>			<u>END of Boring</u>					
<u>8</u>												
<u>9</u>												
<u>10</u>												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: Area A SB # 28 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 29  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION						
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MND PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION	
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations			
		<u>S1</u>				<u>1.0</u>	<u>SILT w/ some sand</u>	<u>yellow/buff</u>	<u>Loose</u>	<u>Dry Gravel</u>			
<u>1</u>		<u>A-N</u>		<u>1.0</u>			<u>SAND fine grained w/ trace silt</u>	<u>light gray</u>	<u>medium dense</u>	<u>moist</u>			
<u>2</u>			<u>50%</u>	<u>7</u> <u>14</u> <u>15</u>		<u>1.0</u>							
<u>3</u>				<u>4</u> <u>5</u> <u>9</u> <u>11</u>		<u>1.0</u>			<u>light gray to</u> <u>DK Brown</u>	<u>medium dense</u>	<u>moist</u>		
<u>4</u>		<u>S3</u>		<u>1.0</u>				<u>DK Brown</u>	<u>medium dense</u>	<u>Wet</u>			
<u>5</u>			<u>65%</u>	<u>4</u> <u>8</u> <u>13</u> <u>14</u>		<u>1.0</u>		<u>DK Brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>Water 6'</u>	
<u>6</u>			<u>50%</u>				<u>END of Boring</u>						
<u>7</u>													
<u>8</u>													
<u>9</u>													
<u>10</u>													

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: Area A SB # 29 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 30  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)									
		<u>S1</u>			<u>1.0</u>	<u>SILT w/ some sand</u>	<u>Yellow/ Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
<u>1</u>		<u>A-N</u>	<u>11</u>			<u>SAND fine grained w/ trace silt</u>	<u>lite Brown to lite gray to</u>	<u>medium dense</u>	<u>Moist</u>		
<u>2</u>			<u>20</u>		<u>1.0</u>		<u>DK Brown to lite gray</u>	<u>medium dense</u>			
<u>3</u>			<u>70%</u>				<u>DK Brown to lite gray</u>	<u>medium dense</u>			
<u>4</u>		<u>S3</u>	<u>14</u>		<u>1.0</u>		<u>DK Brown to lite gray</u>	<u>medium dense</u>		<u>Moist</u>	
<u>5</u>			<u>20</u>				<u>DK Brown to lite gray</u>	<u>medium dense</u>			
<u>6</u>			<u>13</u>		<u>1.0</u>	<u>DK Brown to lite gray</u>	<u>medium dense</u>	<u>Wet</u>		<u>Water 6'</u>	
<u>7</u>			<u>2.0</u>			<u>DK Brown to lite gray</u>	<u>medium dense</u>				
<u>8</u>			<u>65%</u>			<u>END of Boring</u>					
<u>9</u>			<u>4</u>								
<u>10</u>			<u>6</u>								

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: Area A SB # 30 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 31  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									(Ft. & %)
		<u>S1</u>			<u>1.0</u>	<u>SILT w/ some sand</u>	<u>yellow/gray</u>	<u>Loose</u>	<u>Dry Gravel</u>		
1		<u>A-N</u>									
2			<u>17/20</u>	<u>9</u>	<u>1.0</u>	<u>SAND fine grained w/ trace silt</u>	<u>lite brown to lite gray</u>	<u>medium dense</u>	<u>moist</u>		
3			<u>85%</u>	<u>7</u>							
4		<u>S3</u>	<u>14/20</u>	<u>4</u>	<u>1.2</u>		<u>DK Brown</u>	<u>medium dense</u>	<u>moist</u>		
5			<u>70%</u>	<u>6</u>							
6			<u>14/20</u>	<u>2</u>	<u>1.0</u>		<u>lite brown</u>	<u>medium dense</u>	<u>Wet</u>	<u>water 6'</u>	
7			<u>70%</u>	<u>10</u>							
8						<u>END of Boring</u>					
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: Area A SB # 31 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 32  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HWU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>1.2</u>	<u>SILT w/ some sand</u>	<u>Yellow</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>A-N</u>	<u>1.3</u> <u>2.0</u>	<u>8</u> <u>10</u>		<u>1.2</u>	<u>SAND fine grained</u> <u>w/ trace silt</u>	<u>light brown to</u> <u>light gray</u>	<u>medium dense</u>	<u>moist</u>		
3			<u>65%</u>	<u>6</u>								
4		<u>S3</u>	<u>1.4</u> <u>2.0</u>	<u>3</u> <u>6</u>		<u>1.2</u>		<u>dk. brown</u>	<u>Loose</u>	<u>moist</u>		
5			<u>70%</u>	<u>6</u>								
6			<u>1.0</u> <u>2.0</u>	<u>3</u> <u>4</u>		<u>1.1</u>		<u>light brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>water 6'</u>
7			<u>50%</u>	<u>9</u>			<u>END of Boring</u>					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: Area A SB # 32 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #33

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MND PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		<u>S1</u>				<u>110</u>	<u>SILT w/ some sand</u>	<u>Yellow/buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
<u>1</u>		<u>A-N</u>										
<u>2</u>			<u>1.2</u> <u>2.0</u>	<u>7</u> <u>11</u> <u>9</u>		<u>1.1</u>	<u>SAND fine grained w/ trace silt</u>	<u>lite Gray</u>	<u>medium dense</u>	<u>Moist</u>		
<u>3</u>			<u>60%</u>									
<u>4</u>		<u>S3</u>	<u>1.5</u> <u>2.0</u>	<u>3</u> <u>4</u> <u>5</u> <u>5</u>		<u>1.3</u>		<u>DK Brown</u> <u>lite Gray</u>	<u>Loose</u>	<u>Laminations (top &amp; middle)</u> <u>Moist</u>		
<u>5</u>			<u>75%</u>					<u>DK Brown</u>				
<u>6</u>			<u>1.3</u> <u>2.0</u>	<u>3</u> <u>6</u> <u>10</u>		<u>1.1</u>		<u>lite Brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>water 6'</u>
<u>7</u>			<u>65%</u>	<u>11</u>			<u>END OF Boring</u>					
<u>8</u>												
<u>9</u>												
<u>10</u>												

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr

BORING NO.: Area A SB #33 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 34  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				Blows Per 0.5'	Pen. Rate						
1		<u>S1</u>				<u>SILT w/ some sand</u>	<u>yellow buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>A-N</u>	<u>1 1/4 / 20</u>	<u>6</u>		<u>SAND fine grained w/ trace silt</u>	<u>lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>70%</u>	<u>10</u>	<u>112</u>						
4		<u>S3</u>	<u>1 1/4 / 20</u>	<u>4</u>			<u>lite gray to dk. / lite brown</u>	<u>Loose</u>	<u>Moist</u>		
5			<u>70%</u>	<u>4</u>	<u>111</u>		<u>dk. brown</u>		<u>Laminations (middle)</u>		
6			<u>1 1/3 / 20</u>	<u>3</u>			<u>dk. brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>Water 6'</u>
7			<u>65%</u>	<u>8</u>	<u>113</u>		<u>lite brown</u>				
8				<u>10</u>		<u>END of Boring</u>					
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, JR  
 BORING NO.: Area A SB # 34 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 35  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HWU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
		<u>S1</u>				<u>1.1</u>	<u>SILT w/ some sand</u>	<u>Yellow/white</u>	<u>Loose</u>	<u>DN Gravel</u>	
1											
2			<u>1.4</u>	<u>6</u>			<u>SAND fine grained w/ trace silt</u>	<u>DK Gray to lite gray to DK Brown</u>	<u>medium dense</u>	<u>Moist</u>	
3			<u>20%</u>	<u>10</u>	<u>1.3</u>						
4		<u>S3</u>	<u>1.4</u>	<u>4</u>				<u>DK Brown to Gray to Brown</u>	<u>medium dense</u>	<u>Moist</u>	
5			<u>20%</u>	<u>4</u>	<u>1.2</u>						
6			<u>1.3</u>	<u>3</u>				<u>lite Brown</u>	<u>medium dense</u>	<u>Wet</u>	<u>Water 6'</u>
7			<u>2.0</u>	<u>8</u>	<u>1.2</u>						
8			<u>65%</u>	<u>10</u>			<u>END of Boring</u>				
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: Area A SB#35 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 36

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		HW PID (ppm)	Color	Hardness		
		<u>S1</u>				<u>SILT w/ some sand</u>	<u>yellow/</u> <u>buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
<u>1</u>		<u>A-N</u>	<u>.8</u> <u>2.0</u>	<u>10</u> <u>11</u> <u>15</u> <u>14</u>		<u>SAND fine grained</u> <u>w/ trace silt</u>	<u>lite</u> <u>gray</u>	<u>medium</u> <u>dense</u>	<u>Moist</u>		
<u>2</u>			<u>40%</u>		<u>1.1</u>						
<u>3</u>			<u>1.4</u> <u>2.0</u>	<u>11</u> <u>10</u> <u>11</u> <u>14</u>		<u>SAND fine to</u> <u>medium grained</u> <u>w/ trace silt</u>	<u>dk.</u> <u>Brown</u>	<u>medium</u> <u>dense</u>	<u>Moist</u>		
<u>4</u>	<u>S3</u>		<u>70%</u>		<u>1.0</u>						
<u>5</u>			<u>1.3</u> <u>2.0</u>	<u>3</u> <u>5</u> <u>9</u> <u>15</u>			<u>Brown</u>	<u>medium</u> <u>dense</u>	<u>Wet</u>		
<u>6</u>			<u>65%</u>		<u>1.1</u>						<u>Water</u> <u>6'</u>
<u>7</u>						<u>END of boring</u>					
<u>8</u>											
<u>9</u>											
<u>10</u>											

DRILLING CO.: Hardin Huber, Inc  
DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, JR  
BORING NO.: Area A SB # 36 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 37  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-27-92</u>	<u>7'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5' RQD (Ft. & %)	Lab. Class. Pen. Rate	HWU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		<u>S1</u>				<u>1.1</u>	<u>SILT w/ some sand</u>	<u>yellow/white</u>	<u>Loose</u>	<u>Dry Gravel</u>		
<u>1</u>		<u>A-N</u>										
<u>2</u>			<u>1.6 / 2.0</u>	<u>10</u>			<u>SAND fine grained w/ trace silt</u>	<u>light brown to light gray</u>	<u>medium dense</u>	<u>Moist Laminations</u>		
<u>3</u>			<u>80%</u>	<u>7</u>								
<u>4</u>		<u>S3</u>	<u>1.2 / 2.0</u>	<u>6</u>			<u>SAND fine to medium grained w/ trace silt</u>	<u>light gray to dk. brown</u>	<u>medium dense</u>	<u>Moist</u>		
<u>5</u>			<u>60%</u>	<u>10</u>								
<u>6</u>			<u>1.3 / 2.0</u>	<u>2</u>				<u>Brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>Water 6'</u>
<u>7</u>			<u>65%</u>	<u>16</u>		<u>1.2</u>						
<u>8</u>							<u>END of Boring</u>					
<u>9</u>												
<u>10</u>												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: Area A SB # 37 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A RIFES Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 38

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>5'</u>	<u>partly sunny / windy</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced auger to 5' and collected cuttings Engineering Parameter  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
1						SILT w/ some sand SAND fine grained w/ trace silt	Buff to	Loose	Moist		
2							DK Brown to	to	to		
3							lite Brown	medium dense			
4							Brown		wet		
5						END of Boring					
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr

BORING NO.: Area A SB # 38 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area A R1/FS Camp LaSalle

S.O. NO.: 19133

BORING NO.: SR #39

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>6'</u>	<u>Partly sunny / Windy</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 6' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1			<u>1.2 / 20</u>	<u>12</u>		<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Moist Gravel</u>		
2			<u>60%</u>	<u>13</u>	<u>h2</u>	<u>SAND fine grained</u>	<u>yellowy Brown to lite gray</u>	<u>medium dense</u>			
3			<u>.9 / 20</u>	<u>11</u>		<u>w/ trace silt</u>					
4			<u>45%</u>	<u>10</u>							
5			<u>1.7 / 20</u>	<u>8</u>	<u>h2</u>		<u>DK. Brown</u>	<u>medium dense</u>	<u>Moist</u>		
6			<u>85%</u>	<u>6</u>							
7				<u>5</u>							
8				<u>7</u>							
9				<u>4</u>							
10				<u>7</u>	<u>h4</u>	<u>END of Boring</u>	<u>DK Brown to lite Brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>water 4 1/2</u>

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.

BORING NO.: Area A #39 SHEET 1 OF 1

**D.2**  
**Grid 201B**

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## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 1  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/8" I.D.</u>		<u>8/26/12</u>	<u>9.0'</u>	<u>SUNNY 85-90°F</u>	<u>7.5'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 9 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-9' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
0.5		S-1				0	SAND, FINE GRAINED, LITTLE FILL, TRACE SILT	GRAY		DRY	
1.0		A-NS								DAMP	
1.6			1.6	9			SAND, FINE GRAINED, TRACE SILT		MED. DENSE		
2.0		S-2		6		0					
3.0			90%	7				BROWN	LOOSE		
3.4			1.4	3							
4.0		S-3		4		0					
5.0			70%	4							
5.4			1.4	3				BROWN w/ ORG. MOTTLING GRAY		MOIST	
6.0		S-4		4		0					
7.0			70%	4							
7.4			1.4	5							
8.0		S-5		8		0					
8.4			70%	7			SAND, FINE GRAINED, LITTLE SILT, LITTLE CLAY				
9.0							SAND, FINE GRAINED, TRACE SILT				
10.0											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 1 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/26/92</u>	<u>7.0'</u>	<u>SUNNY 85°-90°F</u>	<u>7.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 7' AT TWO FOOT INTERVALS. BOREHOLE GRADED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-KS</u>				<u>SAND, FINE GRAINED, TRACE SILT, TRACE FILL</u>	<u>GRAY</u>		<u>DRY</u> <u>DAMP</u>		<u>1.0</u>
2		<u>S-2</u>	<u>1.2</u>	<u>4</u> <u>4</u> <u>3</u>	<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>		<u>LOOSE</u>			
3	<u>3.0</u>		<u>60%</u>	<u>3</u> <u>4</u> <u>4</u> <u>5</u>		<u>SAME AS ABOVE</u>	<u>BROWN</u>				
4		<u>S-3</u>	<u>1.4</u>	<u>3</u> <u>4</u> <u>4</u> <u>5</u>	<u>0</u>	<u>SAME AS ABOVE</u>					
5	<u>5.0</u>		<u>70%</u>	<u>4</u> <u>5</u> <u>6</u> <u>5</u>		<u>SAME AS ABOVE</u>	<u>LT. BROWN</u>	<u>MO. DENSE</u>	<u>MOIST</u>		
6		<u>S-4</u>	<u>1.4</u>	<u>4</u> <u>5</u> <u>6</u> <u>5</u>	<u>0</u>	<u>SAME AS ABOVE</u>					
7	<u>7.0</u>		<u>70%</u>			<u>END OF BORING</u>	<u>AT</u>	<u>7.0'</u>			<u>NET, WATER TABLE AT 7.0</u>
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB2 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 3  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/26/92</u>	<u>7.0'</u>	<u>SUNNY 85°-90°F</u>	<u>6.5'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HTA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, SOME FILL</u>	<u>GRAY</u>		<u>DRY DAMP</u>		
2		<u>S-2</u>	<u>1.4</u>	<u>14</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BROWN ORGY</u> <u>BROWN</u>	<u>MED. DENSE</u>	<u>MOIST</u>		
3	<u>3.0</u>		<u>90%</u>	<u>6</u>			<u>SAME AS ABOVE</u>					
4		<u>S-3</u>	<u>1.4</u>	<u>6</u>		<u>0</u>	<u>SAME AS ABOVE</u>					
5	<u>5.0</u>		<u>90%</u>	<u>9</u>			<u>SAME AS ABOVE</u>					
6		<u>S-4</u>	<u>1.4</u>	<u>5</u>		<u>0</u>	<u>SAME AS ABOVE</u>	<u>LT BROWN</u>				
7	<u>7.0</u>		<u>70%</u>	<u>5</u>						<u>MET WATER TABLE AT 6.5' 7.0'</u>		
8							<u>END OF BORING AT</u>	<u>7.0'</u>				
9												
10												

DRILLING CO.: HARWIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 3 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS Camp LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB4  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/72</u>	<u>3.0</u>	<u>SUNNY 85-90°F</u>	<u>3.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3' FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 3' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED TRACE SILT</u>	<u>GRAY</u>	<u>LOOSE</u>	<u>DRY DAMP MOIST</u>		
2		<u>A-NS</u>	<u>2.0</u>	<u>3</u>		<u>0</u>						
3		<u>S-2</u>	<u>100%</u>	<u>5</u>						<u>WET, WATER TABLE AT 3.0'</u>		
4							<u>END OF BORING AT</u>	<u>AT</u>	<u>3.0'</u>			
5												
6												
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB4 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SBS  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 3/8" I.D.</u>			<u>3 1/4" I.D.</u>		<u>8/27/92</u>	<u>7.0</u>	<u>SUNNY 85°-90°F</u>	<u>6.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 7' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION								
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION			
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations			ROCK		
1		S-1				0	SAND, FINE GRAINED TRACE, SILT	GRAY	MED. DENSE	DRY DAMP					
		A-NS													
2		S-2	1.1	10		0	SAME AS ABOVE	LC BROWN	LOOSE	MAY					
3			55%	9											
4		S-3	1.4	5		0									
5			70%	4		0	SAME AS ABOVE	GRAY		MAY					
6		S-4	2.0	3		0									
7			100%	3		0						7.0			
8							END OF BORING AT 7.0'								
9															
10															

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SBS SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB6  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/92</u>	<u>7.0</u>	<u>SUNNY 85°-90°F</u>	<u>6.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
0.5		S-1				0	SAND, FINE GRAINED, TRACE FILL, TRACE SILT	GRAY				
1.0		A-NS					SAND, FINE GRAINED, TRACE SILT	LT. BROWN	MED. DENSE			
2.0		S-2	2.0	9		0	SAND, FINE GRAINED, TRACE SILT	BLACK GRAY				
3.0			100%	8			SAME AS ABOVE		LOOSE			
4.0		S-3	1.4	3		0	SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	BROWN LT. BROWN				
5.0			20%	7			SAND, FINE GRAINED, TRACE SILT	LT. BROWN	LOOSE			
6.0		S-4	1.3	3		0	SAND, FINE GRAINED, TRACE SILT	LT. BROWN				
7.0			65%	3								
							END OF BORING AT		7.0'			
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB6

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/92</u>	<u>5.0</u>	<u>SOINY 85-90°F</u>	<u>3.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5' FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 5' AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		<u>S-1</u>				<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BLACKISH BROWN</u>		<u>DRY DAMP</u>		
2		<u>S-2</u>	<u>2.0</u>	<u>4</u>		<u>SAND, FINE GRAINED, SOME SILT</u>	<u>BROWN</u>	<u>med. DENSE</u>			
3			<u>100%</u>	<u>6</u>	<u>0</u>	<u>TRACE ORGANICS</u>	<u>GRAY</u>		<u>MUST MET WATER AT 3.0'</u>		
4		<u>S-3</u>	<u>2.0</u>	<u>6</u>		<u>SAME AS ABOVE</u>					
5			<u>100%</u>	<u>7</u>	<u>0</u>						<u>5.0</u>
6						<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB7 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/28/92</u>	<u>3.0'</u>	<u>SUNNY 85°-90°F</u>	<u>2.5'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	<u>0.5</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BLACK</u>		<u>DAMP</u>		
	<u>1.0</u>	<u>A-NS</u>					<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BROWN</u>		<u>MOIST</u>		
2			<u>2.0</u>	<u>4</u>					<u>LOOSE</u>			
3	<u>3.0</u>	<u>S-2</u>	<u>100%</u>	<u>4</u>		<u>0</u>				<u>NET, WATER AT 2.5'</u>		<u>3.0</u>
4							<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>			
5												
6												
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 8 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB9  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/29/92</u>	<u>3.0</u>	<u>SUNNY 85-90°F</u>	<u>2.5</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)		(Ft. & %)							Pen. Rate
1	<u>0.5</u>	<u>S-1</u>									
	<u>1.0</u>	<u>A-NS</u>									
2			<u>2.0</u>								
			<u>4</u>								
3	<u>3.0</u>	<u>S-2</u>	<u>100%</u>								
			<u>3</u>								
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: HARWIN-HUBER, INC.  
 DRILLER: CARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB9 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB-10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/28/92</u>	<u>3.0</u>	<u>SUNNY 85°-90°F</u>	<u>2.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3' FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 3' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	<u>0.5</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BRICK RED GRAY</u>	<u>LOOSE</u>	<u>DAMP MUST WET WATER AT 2.0'</u>		
	<u>1.0</u>	<u>A-NS</u>										
2			<u>2.0</u>	<u>4</u>								
3	<u>3.0</u>	<u>S-2</u>	<u>100%</u>	<u>3</u>		<u>0</u>						<u>3.0</u>
4							<u>END OF BORING AT</u>	<u>3.0'</u>				
5												
6												
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB10 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS Camp LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 11  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/92</u>	<u>5.0</u>	<u>SUNNY 85°-90°F</u>	<u>4.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS#</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				Blows Per 0.5'	Pen. Rate	PID (ppm)						
0.5		S-1										
1.0		A-NS					<u>SAND, FINE GRAINED</u>	<u>LT. GRAY</u>		<u>DRY</u>		
2.0		S-2	<u>1.4</u>	<u>3</u>			<u>TRACE SILT</u>	<u>DK. BROWN</u>	<u>LOOSE</u>	<u>DAMP</u>		
3.0			<u>70%</u>	<u>3</u>								
4.0		S-3	<u>1.4</u>	<u>4</u>			<u>SAME AS ABOVE</u>	<u>BROWN</u>		<u>MOST WET WATER AT 4.0'</u>		
5.0			<u>70%</u>	<u>4</u>								<u>5.0</u>
6.0							<u>END OF BORING</u>	<u>AT</u>	<u>5.0</u>			
7.0												
8.0												
9.0												
10.0												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CITSUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 11 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 12  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9/31</u>	<u>3.0'</u>	<u>SUNNY 85-90°F</u>	<u>3.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30'</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3' FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 3' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION									
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION					
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate							PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations
0.5		S-1				SAND, FINE GRAINED, TRACE SILT	LT. GRAY	LOOSE	DRY							
1.0		A-NS														
2		S-2	116	2		END OF BORING AT 3.0'			DAMP MOIST							
3			80%	3												
3.0				5												
4																
5																
6																
7																
8																
9																
10																

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 12 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB13  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/24/92</u>	<u>7.0'</u>	<u>SOINY 85-90°F</u>	<u>6.75'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
					Pen. Rate	PID (ppm)						
0.5		S-1										
1.0		A-NS					<u>SAND, FINE GRAINED, TRACE SILT, TRACE FILL</u>	<u>GRAY</u>		<u>DRY DAMP</u>		
2.0		S-2	1.0	7			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>ORANGE BROWN</u>				
3.0			50%	7					<u>MED. DENSE</u>			
4.0		S-3	1.4	7			<u>SAME AS ABOVE</u>	<u>GRAY W/ORG MOTTLED</u>		<u>MOIST</u>		
5.0			70%	4								
6.0		S-4	1.4	5			<u>SAME AS ABOVE</u>		<u>LOOSE</u>			
7.0			70%	6						<u>WET WATER AT 6.75'</u>		<u>7.0</u>
8.0							<u>END OF BORING</u>	<u>AT</u>	<u>7.0'</u>			
9.0												
10.0												

DRILLING CO.: HARWIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB13 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB14  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/26/92</u>	<u>7.0'</u>	<u>SOINY 85-90°F</u>	<u>7.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type - No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
0.5		S-1					SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	GRAY		DRY SAND		
1.0		A-NS										
2		S-2	1.4	4			SAND, FINE GRAINED, TRACE SILT		LOOSE			
3			20/20	9								
4		S-3	1.4	5			SAME AS ABOVE	GRAY	MED. DENSE			
5			20/20	7						MAST		
6		S-4	1.3	7			SAME AS ABOVE	GRAY				
7			65/20	8								
7.0				7						WET WATER AT 7.0'		
8							END OF BORING AT		7.0'			
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB14 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA " " RI/FS CAMP LEJEUNE  
 S.O. NO.: 1913-50-SRN BORING NO.: SB15  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/24</u>	<u>7.0</u>	<u>SUNNY 85°-90°F</u>	<u>7.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-2' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
				(Ft. & %)	RQD (Ft. & %)	Pen. Rate					
0.5		S-1									0.5
1.0		A-NS					<u>SAND, FINE GRAINED, TRACE SILT, TRACE FILL</u>	<u>DK. GRAY</u>	<u>---</u>	<u>DRY DAMP</u>	0.5
2.0		S-2	<u>1.4</u>	<u>15</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>	<u>MED. DENSE</u>		
3.0			<u>20%</u>	<u>7</u>							
4.0		S-3	<u>2.0</u>	<u>5</u>					<u>LOOSE</u>		4.0
5.0			<u>100%</u>	<u>5</u>			<u>SAND, FINE GRAINED, LITTLE ORGANICS, TRACE SILT</u>	<u>BROWN</u>			4.5
6.0		S-4	<u>1.9</u>	<u>3</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>		<u>LOOSE</u>	<u>MOIST</u>	
7.0			<u>95%</u>	<u>4</u>				<u>GRAY</u>		<u>NET WATER</u>	7.0
8.0							<u>END OF BORING</u>	<u>AT</u>	<u>7.0'</u>		
9.0											
10.0											

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB15 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPLETUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB-16  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/26/92</u>	<u>7.0'</u>	<u>SUNNY 85-90°F</u>	<u>6.25'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
0.5		S-1									0.5
1.0		A-NS									1.0
1.5				7							1.5
2.0				8							
3.0		S-2	75%	10							
4.0				7							
5.0		S-3	85%	6							
6.0				4							
7.0		S-4	100%	7							7.0
7.0				8							
						END OF BORING AT 7.0'					

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB-16 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPLEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB-17  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>	CASING	AUGERS	CORE BARREL					
LENGTH	<u>2.0'</u>		<u>3 1/4" I.D.</u>		<u>8/26/42</u>	<u>7.0'</u>	<u>SUNNY 45-90°F</u>	<u>5.0'</u>	<u>TOB</u>
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
	ROCK	Type No. (N = No Samp.)								RQD (Ft. & %)	Pen. Rate
1		<u>S-1</u>			<u>SAND, FINE GRAINED, TRACE SILT, SOME FILL</u>	<u>GRAY</u>	<u>DRY</u>				
		<u>MNS</u>				<u>TRUCK</u>	<u>DAMP</u>				
2			<u>1.4</u>		<u>SAND, FINE GRAINED, LITTLE CLAY, TRACE SILT</u>	<u>GRAY</u>	<u>MED. DENSE</u>				
3		<u>S-2</u>	<u>90%</u>			<u>DRY</u>					
4			<u>1.4</u>		<u>SAND, FINE GRAINED</u>	<u>GRAY</u>	<u>LOOSE</u>	<u>MOIST</u>			
5		<u>S-3</u>	<u>70%</u>		<u>TRACE SILT</u>			<u>WET</u>			
6			<u>1.3</u>		<u>SAME AS ABOVE</u>	<u>GRAY</u>	<u>MED. DENSE</u>				
7		<u>S-4</u>	<u>65%</u>						<u>7.0'</u>		
8					<u>END OF BORING 7.0'</u>						
9											
10											

DRILLING CO.: HARDIN-HUBER  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB-17 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB-18  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>7/24/92</u>	<u>7.0'</u>	<u>SUNNY 85-90°F</u>	<u>5.5'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
					Pen. Rate	PID (ppm)					
0.5		S-1									
1.0		MMS					SAND, FINE GRAINED, TRACE SILT, SOME FILL			DRY DAMP	
2.0		S-2	1.0	3			SAND, FINE GRAINED, TRACE SILT		LOOSE		2.75
3.0		S-3	50%	4			SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANIC			MOIST	7.0
4.0		S-3	1.4	5					RED. DARK		
5.0		S-3	70%	7			SAND, FINE GRAINED				
6.0		S-4	1.2	5			TRACE SILT			WET	
7.0		S-4	60%	9							7.0
8.0							END OF BORING AT	7.0'			

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB-18 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPLEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB-19  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 3/4" I.D.</u>			<u>3/4" I.D.</u>		<u>9/27/92</u>	<u>7.0'</u>	<u>SUNNY 85-90°F</u>	<u>7.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD						VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate					
1		S-1				SAND, FINE GRAINED, LITTLE FILL, TRACE SILT	GRAY	MED. DENSE	MED. DENSE	
		A-NS								
2		S-2	1.8	10		SAND, FINE GRAINED, TRACE SILT	Dk. Brown	MED. DENSE		
				8						
3		S-3	90%	12		SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANS	Brown	MED. DENSE	moist	3.5
				10						
4		S-3	1.5	10		SAND, FINE GRAINED, TRACE SILT	Brown	MED. DENSE	moist	
				8						
5		S-3	7.5	7		SAND, FINE GRAINED, TRACE SILT	Brown	MED. DENSE	moist	
				7						
6		S-4	1.9	6		SAND, FINE GRAINED, TRACE SILT	Brown	MED. DENSE	moist	
				6						
7		S-4	8.5	10		END OF BORING AT	Brown	MED. DENSE	moist	7.0
				10						
8						END OF BORING AT	Brown	MED. DENSE	moist	
9						END OF BORING AT	Brown	MED. DENSE	moist	
10						END OF BORING AT	Brown	MED. DENSE	moist	

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB-19 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'B' RI/FS CAMPLETUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB-20  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/27/92</u>	<u>7.0'</u>	<u>SUNNY 85-90°F</u>	<u>6.5'</u>	<u>JOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S-1					SAND, FINE GRAINED, TRACE SILT, LITTLE FILL	GRY		DRY		
		AWS								DAMP		
2		S-2	1.0	10			SAND, FINE GRAINED, TRACE SILT	DK BROWN ORANGE	MED. DENSE			1.5
3		S-2	50%	10			SAND, FINE GRAINED, TRACE SILT					
4		S-3	1.0	12			SAND, FINE GRAINED, LITTLE SILT, TRACE ORGAMS	GRY		MOST		3.5
5		S-3	50%	8					MED. DENSE			
6		S-4	1.0	7			SAND, FINE GRAINED	DK BROWN				
7		S-4	50%	6			TRACE SILT			WET, WATER TABLE		7.0
7			50%	8				GRY				
7			10				END OF BORING	AT	7.0'			
8												
9												
10												

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB-20 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'B' RI/FS CAMPLÉTEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB21  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/92</u>	<u>7.0'</u>	<u>SUNNY 85-90°F</u>	<u>5.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
					RQD (Ft. & %)	Pen. Rate					
1		S-1					SAND, FINE GRAINED, SOME FILL	GRAY		Dry	
							LITTLE SILT	BLACK	MED. DENSE	DAMP	
2		S-2	1.3	8			SAND, FINE GRAINED	GRAY			2.75
			65%	6			LITTLE SILT				
3							SAND, FINE GRAINED, LITTLE SILT, TRACE GRASSES	BROWN LT. BROWN	LOOSE		3.0
								GRAY		MOIST	
4		S-3	2.0	4			SAND, FINE GRAINED		LOOSE		
			100%	5							
5							TRACE SILT		MED. DENSE	NET, WATER TABLE NOTED	
6		S-4	2.0	4							
			100%	5							
7							END OF BORING	AT	7.0'		7.0
8											
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB21 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPLÉJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 22  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/4" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/72</u>	<u>7.0'</u>	<u>SUNNY 45-90°F</u>	<u>5.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD						VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate					
0.5		S-1				SAND, FINE GRAINED, TRACE SILT, SOME FILL	GRAY		Dry	
1.0							BLACK		DAMP	
2.0		S-2	1.3	6		SAND, FINE GRAINED, TRACE SILT		MED. DENSE		
3.0			65%	5						2.5
4.0		S-3		6		SAND, FINE GRAINED, TRACE SILT, TRACE OLIVINES	DK. BROWN	MED. DENSE		3.0
5.0				2			ORANGE BROWN			
6.0		S-4	1.2	9		SAND, FINE GRAINED TRACE SILT	BROWN			
7.0			60%	6			GRAY		WET, WATER TABLE NOTED	
8.0						END OF BORING AT	AT	7.0'		
9.0										
10.0										

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 22 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPLETUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB23  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/28/92</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
				RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
0.5		S-1					SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	GRAY		DRY	
1.0		A-NS					SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	BLACK	MED. DENSE	DAMP	
2.0		S-2	1.2	7			SAND, FINE GRAINED, TRACE SILT	GRAY			
3.0			60%	6			SAND, FINE GRAINED, SOME SILT, LITTLE ORGANICS	BROWN		WET	2.75'
4.0		S-3	1.6	5			SAND, FINE GRAINED, TRACE SILT	BROWN	MED. DENSE		
5.0			90%	7			SAND, FINE GRAINED, TRACE SILT			WET, WATER TABLE ADDED	5.0
6.0							END OF BORING	AT	5.0'		
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB23 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA B RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB24  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/12</u>	<u>5.0'</u>	<u>SUNNY 85-90°F</u>	<u>4.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION						
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
	ROCK	Type- No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		ROCK	
1	0.5	S-1				0	SAND, FINE GRAINED, TRACE SILT	GRAY		DRY			
	1.0	A-NS						BROWN	MED. DENSE	DAMP			
2		S-2	6.9	64		0	SAME AS ABOVE	GRAY w/ orange staining		WET, WATER TRACE NOTED.			
3	3.0		45%	79									
4		S-3	1.0	64		0							
5	5.0		50%	78							5.0		
6							END OF BORING	AT	5.0'				
7													
8													
9													
10													

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB24 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 25  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/72</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>H5A</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
0.5		S-1										
1.0		A-NS					SAND, FINE GRAINED TRACE SILT	Dr. Light LT Brown		DRY DAMP		
2		S-2	1.8	7					MED. DENSE			
3.0			90%	8				GRY		MOIST		
4		S-3	0.2	3								4.0
5.0			10%	3			SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	DK. BROWN LT. BROWN				5.0
							END OF BORING AT	AT	5.0'	WET, WATER TABLE NOTED		
6												
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 25 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB26  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/92</u>	<u>5.0'</u>	<u>SUNNY 45-90°F</u>	<u>5.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
					RQD (Ft. & %)	Pen. Rate						
1	<u>0.5</u>	<u>S-1</u>					<u>SAND, FINE GRAINED, TRACE SILT, LITTLE ORGANICS</u>	<u>DR. BROWN</u>		<u>DRY DAMP</u>		
	<u>1.0</u>	<u>A-N3</u>										
2		<u>S-2</u>	<u>6 7/8</u>	<u>1.4</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>	<u>MED. DENSE</u>			
3	<u>3.0</u>		<u>11</u>	<u>70%</u>						<u>MOIST</u>		
4		<u>S-3</u>	<u>7 7/8</u>	<u>1.0</u>								
5	<u>5.0</u>		<u>8</u>	<u>50%</u>			<u>SAND, FG, T. SILT, T. ORGANICS</u>	<u>BROWN</u>		<u>MET, WATER TABLE NOTED</u>		<u>5.0</u>
6							<u>END OF BORING AT 5.0'</u>					
7												
8												
9												
10												

DRILLING CO.: HARDIN - HUBER  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB26 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 27  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/27/92</u>	<u>5.0'</u>	<u>SUNNY 45-90°F</u>	<u>5.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANICS</u>	<u>GRAY</u>	<u>---</u>	<u>DRY STAMP</u>		
2		<u>S-2</u>	<u>1.0</u>	<u>10</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>	<u>MED. DENSE</u>			
3	<u>3.0</u>		<u>50%</u>	<u>7</u>								
4		<u>S-3</u>	<u>1.4</u>	<u>3</u>		<u>0</u>	<u>SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANICS</u>	<u>DK GRAY</u>	<u>LOOSE</u>	<u>MOIST</u>		
5	<u>5.0</u>		<u>70%</u>	<u>6</u>						<u>WET, WATER TABLE AT 5.0'</u>		
6							<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 27 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA B' RI/FS CAMPLETUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB28  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/28/92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.5</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
				Blows Per 0.5'	Pen. Rate	PID (ppm)					
1		S-1					<u>SAND, FINE GRAINED, LITTLE SILT, SOME FILL</u>	<u>GRAY</u>		<u>DRY</u>	
		A-NS								<u>DAMP</u>	
2		S-2	<u>1.9</u>	<u>6</u>			<u>SAND, FINE GRAINED</u>	<u>TRACK LT BROWN DK. GRAY</u>	<u>MED. DENSE</u>		
3		S-3	<u>95%</u>	<u>8</u>			<u>TRACE SILT</u>	<u>GRAY</u>		<u>MOIST</u>	
4		S-3	<u>2.0</u>	<u>4</u>					<u>LOOSE</u>		
5		S-3	<u>100%</u>	<u>6</u>				<u>GRAY</u>			<u>5.0</u>
6							<u>END OF BORING AT</u>	<u>5.0'</u>			
7											
8											
9											
10											

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 28 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'B' RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 29  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/12</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.0'</u>	
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				Blows Per 0.5'							
0.5		S-1				SAND, FINE GRAINED, TRACE SILT	LT BROWN	LOOSE	DRY DAMP		
1.0		A-NS									
2		S-2	<u>14</u>	<u>3</u>		SAME AS ABOVE	GRAY		MIST		
3			<u>60%</u>	<u>3</u>							
4		S-3	<u>1.0</u>	<u>4</u>		END OF BORING	AT	5.0'	NET, WATER TABLE NOTED		
5			<u>50%</u>	<u>3</u>							
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 29 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPELJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 30  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/12</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0</u>	
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
0.5		S-1									
1.0		A-N5				<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>		<u>DRY</u>		
2.0		S-2		<u>7</u>		<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BROWN</u>	<u>MED. DENSE</u>			
3.0			<u>100%</u>	<u>8</u>		<u>SAND, FINE GRAINED</u>			<u>MOIST</u>		
4.0		S-3		<u>3</u>		<u>TRACE SILT</u>	<u>GRAY</u>	<u>LOOSE</u>			
5.0			<u>100%</u>	<u>4</u>					<u>WET, WATER TABLE NOTED</u>	<u>5.0</u>	
<u>END OF BORING AT 5.0'</u>											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 30 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 31  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/21/72</u>	<u>5.0'</u>	<u>SUNNY 85-90°F</u>	<u>4.0'</u>	
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
		Type-No. (N = No Samp.)									(Ft. & %)
0.5		S-1									
1.0		A-NS			<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>GRAY</u>		<u>DRY</u>			
2.0		S-2	4		<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BROWN</u>	<u>LOOSE</u>	<u>DAMP</u>			
3.0			6								
4.0		S-3	8			<u>GRAY</u>	<u>MED DENSE</u>	<u>MOIST</u>			
5.0			5					<u>WATER AT 4.0'</u>		<u>5.0'</u>	
5.0			7								
					<u>END OF BORING</u>	<u>RT</u>	<u>5.0'</u>				
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 31 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMPLETUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB32  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/22/92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.5'</u>	
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
				RQD (FL & %)	Pen. Rate						PID (ppm)
0.5		S-1									
1.0		A-NS				<u>SAND, FINE GRAINED TRACE FILL, TRACE SILT</u>	<u>LIGHT BROWN</u>	<u>LOOSE</u>	<u>DRY</u>		
1.8				<u>3</u>							
2.0		S-2		<u>5</u>		<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BROWN GRAY</u>	<u>LOOSE</u>	<u>MOIST</u>		
2.4				<u>4</u>							
3.0				<u>3</u>							
3.6				<u>3</u>							
4.0		S-3		<u>3</u>							
4.4				<u>4</u>							
5.0				<u>3</u>		<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BROWN</u>		<u>WET, WATER TABLE NOTED</u>	<u>5.0</u>	
5.0						<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB32 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'B' RI/FS CAMPELJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB33  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/28/92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.5</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1	0.5	S-1				0	<u>SAND, FINE GRAINED, TRACE CLAY</u>			<u>DRY</u>	
	1.0	A-NS					<u>SILT, TRACE FILL</u>				
2		S-2	<u>1.4</u>	<u>10</u>		0	<u>SAND, FINE GRAINED</u>	<u>BLACK</u>	<u>MED. DENSE</u>	<u>DAMP</u>	
			<u>12</u>	<u>11</u>			<u>TRACE SILT</u>	<u>LT BROWN</u>		<u>MOIST</u>	
3	3.0		<u>70%</u>	<u>11</u>				<u>GRAY</u>	<u>LOOSE</u>		
4		S-3	<u>1.4</u>	<u>4</u>		0					<u>4.2</u>
			<u>4</u>	<u>3</u>			<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BROWN GRAY</u>		<u>WET WATER TABLE NOTED AT 4.5'</u>	<u>5.0</u>
5	5.0		<u>70%</u>	<u>4</u>			<u>END OF BORING AT 5.0'</u>				
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB33 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 6SB33A  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3.25" ID</u> <u>R. 2.5" ID</u>		<u>10-14-92</u>	<u>0'-8'</u>	<u>Sunny, Cool</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>36"</u>								
STICK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S-1	<u>0.35</u> <u>2.0</u>	<u>7</u> <u>5</u> <u>3</u>			SAND, Fine grained, trace SILT	Grey	Loose	Damp		
2			<u>17%</u> <u>1.8</u> <u>2.0</u>	<u>6</u> <u>6</u> <u>8</u>			SAND, Fine grained, trace SILT	Grey	Medium dense	Damp		
3		S-2	<u>90%</u>	<u>11</u>			NOTE: LITTLE SILT @ 3.5'					
4			<u>1.6</u> <u>2.0</u>	<u>4</u> <u>4</u>			SAND, Fine grained, LITTLE SILT	White	Medium dense	MOIST		
5		S-3	<u>80%</u> <u>1.8</u> <u>2.0</u>	<u>6</u> <u>7</u>			SAND, Fine grained, LITTLE SILT	Brown	Loose	Wet, groundwater at 6.5'		
6			<u>90%</u>	<u>5</u> <u>5</u> <u>5</u>			NOTE: SOME SILT @ 6.5'					
7		S-4	<u>90%</u>				END OF BORING AT 8.0'					8.0
8												
9												
10												

DRILLING CO.: Hardini Huber Inc.  
 DRILLER: C. Chism

BAKER REP.: J. CULP  
 BORING NO.: 6SB33A SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA B RI/FS CAMPELLEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 34  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/4" I.D.</u>		<u>3/4" I.D.</u>		<u>8/28/92</u>	<u>5.0'</u>	<u>SUNNY 85-90°F</u>	<u>3.75'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate		PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
0.5		S-1									
1.0		A-NS				<u>SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANICS!</u>	<u>GRAY</u>		<u>DRY</u>		
2.0		S-2	<u>1.6</u>	<u>7</u>			<u>BLACK</u>	<u>MED. DENSE</u>	<u>DAMP</u>		
3.0			<u>80%</u>	<u>10</u>	<u>0</u>	<u>SAND, FINE GRAINED TRACE SILT</u>	<u>GRAY</u>		<u>MOIST</u>		
4.0		S-3	<u>1.4</u>	<u>5</u>	<u>0</u>	<u>SAME AS ABOVE</u>			<u>WET, WITH TRACE NOTED AT 3.75'</u>		
5.0			<u>70%</u>	<u>3</u>						<u>5.0'</u>	
6.0						<u>END OF BORING AT</u>	<u>5.0'</u>				
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 34 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'B' RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB35  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
1	0.5 1.0	S-1 A-NS				SAND, FINE GRAINED, TRACE SILT	GRAY	LOOSE	DRY	5.0	
2		S-2	2.0	3							DAMP
3	3.0		100%	4			BLACK LT. GRAY				
4		S-3	1.9	5		SAME AS ABOVE	BLACK BROWN	MOIST			
5	5.0		95%	4					NET, WATER TABLE NOTED		
6						END OF BORING	AT	5.0'			
7											
8											
9											
10											

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB35 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA B RI/FS CAMPLETUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB36  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.0'</u>	
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
0.5		S-1					SAND, FINE GRAINED, TRACE CLAY			DRY		
1.0		A-1S					FILL, TRACE SILT			DAMP		
1.8				4			SAND, FINE GRAINED, TRACE SILT		LOOSE			
2.0		S-2		4								2.5
3.0			90%	4			SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS			MOIST		3.0
3.8		S-3		3			SAND, FINE GRAINED, TRACE SILT					
4.0				4								
4.8			85%	4								5.0
5.0							END OF BORING	AT	5.0'			
6												
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB36 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'B' RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 37  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/27/92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.0'</u>	
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				SOIL ELEVATION	ROCK ELEVATION
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations		
		ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1	<u>0.5</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAYISH BROWN</u>		<u>DRY</u>	<u>NET, WATER TABLE NOTED. 4.0</u>  <u>5.0</u>	
	<u>1.0</u>	<u>A-NS</u>				<u>0</u>		<u>GRAY</u>	<u>MEP. DENSE</u>	<u>DAMP</u>		
2			<u>1.4</u>	<u>4</u>								
3	<u>3.0</u>	<u>S-2</u>	<u>70%</u>	<u>8</u>		<u>0</u>		<u>LOOSE</u>	<u>MOIST</u>			
4			<u>1.4</u>	<u>3</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>DRY BROWN</u>				
5	<u>5.0</u>	<u>S-3</u>	<u>70%</u>	<u>7</u>		<u>0</u>						
6							<u>END OF BORING AT 5.0'</u>					
7												
8												
9												
10												

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 37 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 BACKGROUND RI/FS Camp LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB38  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SUNNY 85°-90°F</u>	<u>2.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BLACK</u>		<u>DRY</u>	<u>3.0</u>
		<u>A-NS</u>								<u>DAMP</u>	
			<u>1.9</u>	<u>3</u>			<u>SAND, FINE GRAINED TRACE SILT</u>	<u>DK. GRAY</u>	<u>LOOSE</u>	<u>MUST GET WATER AT 2.0'</u>	
2		<u>S-2</u>		<u>3</u>		<u>0</u>					
3			<u>95%</u>	<u>3</u>							
4							<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>		
5											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CRISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB38

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 BACKGROUND RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB39  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/92</u>	<u>9.0</u>	<u>SUNNY 85-90°F</u>	<u>9.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 9 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-9' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				SOIL ELEVATION	ROCK			
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations					
					RQD (Ft. & %)	Pen. Rate					PID (ppm)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
0.5		S-1				0									
1.0		A-NS													
1.0 - 2.0		S-2	1.1	6		0	SAND, FINE GRAINED, TRACE SILT	GRAY	MED. DENSE	DRY					
2.0 - 3.0			55%	6							BROWN	DRY	DRY		
3.0 - 4.0			55%	4										BROWN	DRY
4.0 - 5.0		S-3	1.5	3		0	SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	DK. BROWN	LOOSE	DRY					
5.0 - 6.0			75%	3							LT. BROWN	DRY	DRY		
6.0 - 7.0		S-4	1.7	4		0	SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY	LT. BROWN	DRY	DRY					
7.0 - 8.0			95%	4							GRAY	LOOSE	DRY	DRY	
8.0 - 9.0		S-5	2.0	4		0	SAND, FINE GRAINED, TRACE SILT	GRAY	LOOSE	DRY					
9.0 - 10.0			100%	4							AT	9.0'	DRY	DRY	
9.0				5			END OF BORING	AT	9.0'	DRY					
10.0				5							END OF BORING	AT	9.0'	DRY	

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB39 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "B" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB-39 (CHEM)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/28/92</u>	<u>6.0'</u>	<u>SUNNY 85-90°F</u>	<u>4.25'</u>	
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 6 FEET, TAKING SPLIT SPOON SAMPLES FROM 0'-6' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL / ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
		Type No. (N = No Samp.)		RQD (FL & %)			Pen. Rate	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		S-1	0.6	9			SAND, FINE GRAINED, TRACE SILT	lt brown	med. dense	DAMP		
2	2.0		30%	8					tan		MOIST	
3		S-2	2.0	3			SAME AS ABOVE		LOOSE			
4	4.0		100%	4					med.			
5		S-3	2.0	6			SAME AS ABOVE	med.	dense	WET, WATER TABLE NOTED AT 4.25'		
6	6.0		100%	7								
7							END OF BORING	AT	6.0			
8												
9												
10												

DRILLING CO.: HARDIN - HUBER  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB-39 (CHEM) SHEET 1 OF 1



**D.3**  
**Grid 201C**

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## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS Camp LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 1  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SUNNY 85-90°F</u>	<u>2.75</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HTA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 3' AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT-BROWN</u> <u>LCYAN</u>		<u>DAMP</u>		
2		<u>S-2</u>	<u>1.5</u>	<u>5</u>			<u>SAND, FINE GRAINED, TRACE SILT, LITTLE ORGANICS</u>	<u>LT-BROWN</u> <u>GRAY</u>	<u>MED DENSE</u>	<u>MOIST</u>		
3	<u>3.0</u>		<u>25%</u>	<u>9</u>			<u>SAND, FG, T. SILT</u>	<u>GRAY</u>		<u>WATER AT 2.75'</u>	<u>2.75</u>	
4							<u>END OF BORING</u>	<u>RT</u>	<u>3.0'</u>			
5												
6												
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 1 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C RIFs Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 2

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-28-92</u>	<u>11'</u>	<u>Sunny / windy</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 11' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
		Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate						MN PID (ppm)
1		<u>SI A-N</u>				<u>SILT w/ some sand</u>	<u>yellow / buff</u>	<u>Loose</u>	<u>DRY</u>	<u>Gravel</u>	
2			<u>1.5 / 20</u>	<u>100</u>		<u>SAND fine grained</u>	<u>yellow + lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>75%</u>	<u>100</u>		<u>w/ trace silt</u>	<u>lite brown</u>			<u>Laminations</u>	
4			<u>1.3 / 20</u>	<u>100</u>			<u>Brown to lite gray</u>	<u>Loose</u>	<u>Moist</u>		
5			<u>65%</u>	<u>100</u>			<u>DK Brown</u>				
6			<u>1.7 / 20</u>	<u>100</u>		<u>SAND fine grained</u>	<u>DK Brown to lite brown</u>	<u>Loose to medium dense</u>	<u>Moist</u>		
7			<u>85%</u>	<u>100</u>							
8	<u>SS</u>		<u>1.8 / 2.0</u>	<u>100</u>			<u>lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
9			<u>90%</u>	<u>100</u>							
10			<u>1.3 / 20</u>	<u>100</u>		<u>END of Boring</u>	<u>lite gray</u>	<u>medium dense</u>	<u>Wet</u>	<u>Water 10'</u>	

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J. E. Zimmerman, Jr.

DRILLER: Terry Mize

BORING NO.: Area C SB # 2 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C R1 FS Camp Lejeune

S.O. NO.: \_\_\_\_\_

BORING NO.: SB #3

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>mobile Drill 3</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>9'</u>	<u>Sunny / windy</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MNA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.1	SILT w/ some sand	Yellow/Buff	Loose	Dry Root material, Gravel		
2			1.3 / 2.0	12			SAND fine grained w/ trace silt	lite gray to Brown to lit Brown	medium dense	Moist		
3			65%	7		1.1						
4			1.5 / 2.0	6								
5			75%	5		1.2						
6		S4	1.9 / 2.0	4			SAND fine grained	lite Brown	Loose to medium dense	Moist		
7			45%	3		1.1						
8			1.4 / 2.0	4								
9			70%	5		1.1						
10				12			END of Boring					water 8'

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman Jr.

BORING NO.: Area C SB #3 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C R/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB #4  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: mobile Drill 3					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3/4" ID		8-28-92	9'	sunny/windy		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HMA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.2	SILT w/ some sand	yellow/ buff	Loose	Dry Gravel		
2			1.2/2.0	4		1.2	SAND fine grained w/ trace silt	yellow + lite gray Brown	medium dense	Moist		
3			60% 1.2/2.0	5		1.2				Laminations		
4			60% 1.2/2.0	4		1.2		lite Brown to lite gray	Loose	Moist		
5			60% 1.4/2.0	4		1.2						
6		S4	70% 1.4/2.0	4		1.2	SAND fine grained	yellow/ Brown to lite gray	Loose to medium dense	Moist		
7			70% 1.4/2.0	5		1.2						
8			70% 1.4/2.0	6		1.2		lite gray	medium dense	Wet		water @
9				6			END OF BORING					
10												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman Jr.  
 BORING NO.: Area C SB #4 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS Camp LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 5  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SUNNY 85-90°F</u>	<u>2.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						
0.5		S-1									
1.0		A-NS									
2.0		S-2		5		SAND, FINE GRAINED, TRACE SILT	LT BROWN	MED. DENSE	DAMP MAY BE WET WATER AT 2.0'		
3.0			100%	4							
4.0						END OF BORING AT	AT	3.0'			
5.0											
6.0											
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HAROLD-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 5 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" R/F/S CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SBC  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SUNNY 85°-90°F</u>	<u>3.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
		Type No. (N = No Samp.)									RQD (FL & %)
1	<u>0.5</u>	<u>S-1</u>			<u>SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY</u>	<u>LT BROWN</u>		<u>DAMP</u>			
	<u>1.0</u>	<u>A-NS</u>									
2		<u>S-2</u>	<u>1.1</u>	<u>6</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT BROWN</u>	<u>MED DENSE</u>	<u>MOIST</u>			
3	<u>3.0</u>		<u>55 1/2</u>	<u>9</u>				<u>WET WATER AT 3.0' 30</u>			
4					<u>END OF BORING</u>	<u>MT</u>	<u>3.0'</u>				
5											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CARLES CITSON

BAKER REP.: R. SEVCIK  
 BORING NO.: SBC SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA " " RI/FS Camp LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SUNNY 85°-90°F</u>	<u>3.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE CROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
0.5		S-1									
1.0		A-NS				SAND, FINE GRAINED, TRACE CLAY, TRACE SILT	LT. BROWN				1.0
1.2				4		SAND, FG, T. SILT	BLACK				1.5
2.0		S-2		6		SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	DRY BROWN	MED.			2.0
3.0			60%	5		SAND, FG, T. SILT	CLAY	DENSE	WET WATER AT		3.0
4.0						END OF BORING	AT	3.0'			
5.0											
6.0											
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB7 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SUNNY 85-90°F</u>	<u>3.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>				<u>SAND, FINE GRAINED</u> <u>TRACE SILT</u>	<u>LT. BROWN</u> <u>GRAY</u>		<u>DAMP</u> <u>MOIST</u>		
2		<u>S-2</u>	<u>1.5</u>	<u>5</u>				<u>LOOSE</u>			
3	<u>3.0</u>		<u>75%</u>	<u>7</u>	<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, LITTLE ORGANICS</u>	<u>BROWN</u>		<u>WET WATER AT 3.0'</u>		<u>2.5</u> <u>3.0</u>
4						<u>END OF BORING AT 3.0'</u>					
5											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHSUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 8 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA " " RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB9  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/30/12</u>	<u>5.0</u>	<u>SUNNY 85°-90°F</u>	<u>3.1'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED</u>	<u>BLACK</u>		<u>DAMP</u>		
		<u>A-NS</u>					<u>TRACE SILT,</u>	<u>BROWN</u>	<u>LOOSE</u>	<u>MOIST</u>		
2			<u>1.7</u>	<u>3</u>			<u>LITTLE ORGANICS</u>	<u>LT. BROWN</u>				
3		<u>S-2</u>		<u>4</u>		<u>0</u>				<u>WET</u>		
			<u>85%</u>	<u>6</u>						<u>WATER AT 3.1'</u>	<u>3.0</u>	
4		<u>S-3</u>		<u>3</u>		<u>0</u>	<u>SAND, FINE GRAINED,</u>	<u>LT. BROWN</u>				
			<u>2.0</u>	<u>3</u>			<u>TRACE SILT</u>	<u>GRAY</u>	<u>LOOSE</u>			
5			<u>100%</u>	<u>3</u>							<u>5.0</u>	
6							<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>			
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB9 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RIFES CAMP LEJEUNE  
 S.O. NO.: 1913-50-SRN BORING NO.: SB 10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/30/92</u>	<u>3.0</u>	<u>SUNNY 85-90°F</u>	<u>2.8</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GRADED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, LITTLE TRACE ORGANICS</u>	<u>BLACK</u>		<u>DAMP</u>	<u>1.25</u>
2		<u>S-2</u>	<u>2.0</u>	<u>5</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BROWN LT. BROWN GRAY</u>	<u>MED. DENSE</u>	<u>MOIST</u>	
3	<u>3.0</u>		<u>100%</u>	<u>7</u>						<u>NET WATER AT 2.8'</u>	
4							<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>		
5											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 10 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'C' RI/FS CAMPELJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 11  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/29/92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>5.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1	<u>0.5</u>	<u>S-1</u>				<u>SAND, FINE GRAINED, LITTLE FILL, TRACE SILT</u>	<u>DR. GRAY</u>	<u>---</u>	<u>DRY</u>		
	<u>1.0</u>	<u>A-05</u>					<u>CRAYSH BLACK</u>	<u>LOOSE</u>	<u>DAMP</u>		
2		<u>S-2</u>	<u>13</u>	<u>2</u>		<u>SAND, FINE GRAINED TRACE SILT</u>					
3	<u>3.0</u>		<u>65%</u>	<u>1</u>	<u>0</u>						
4		<u>S-3</u>	<u>0.5</u>	<u>3</u>		<u>SAME AS ABOVE</u>		<u>LOOSE</u>	<u>MUST</u>		
5	<u>5.0</u>		<u>25%</u>	<u>4</u>	<u>0</u>				<u>WET, WATER AT 4.75'</u>		<u>5.0</u>
6						<u>END OF BORING AT 5.0'</u>	<u>SOI</u>				
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 11 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C RIFs Camp Lejeune

S.O. NO.: \_\_\_\_\_

BORING NO.: SB #12

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-30-92</u>	<u>9'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				Blows Per 0.5'							
1		<u>S1</u>				<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel Root material</u>		
2		<u>A-N</u>	<u>1.5/20</u>	<u>10</u>		<u>SAND fine grained w/ trace silt</u>	<u>DK. Gray to lite gray</u>	<u>medium dense</u>	<u>MOIST</u>		
3			<u>75%</u>	<u>10</u>	<u>1.2</u>						
4			<u>1.3/20</u>	<u>4</u>			<u>Brown</u>	<u>Loose to medium dense</u>	<u>MOIST</u>		
5			<u>65%</u>	<u>5</u>	<u>1.3</u>						
6		<u>S4</u>	<u>1.5/20</u>	<u>3</u>		<u>SAND fine grained</u>	<u>Brown</u>	<u>medium dense</u>	<u>MOIST</u>		
7			<u>75%</u>	<u>4</u>	<u>1.3</u>				<u>orange streaks (oxidation)</u>		
8			<u>1.4/20</u>	<u>4</u>			<u>lite gray</u>	<u>medium dense</u>	<u>Wet</u>		<u>Water 7/2"</u>
9			<u>70%</u>	<u>11</u>	<u>1.2</u>						
10				<u>12</u>		<u>END OF Boring</u>					

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman Jr.

BORING NO.: Area C SB #12 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 13  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SUNNY 85°-90°F</u>	<u>1.5'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (FL & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>				<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT. BROWN</u>		<u>DRY DAMP MOST WET WATER AT 1.5'</u>		
2		<u>S-2</u>	<u>2.0</u>	<u>7</u>			<u>GRAY W/ ORG MATTER</u>	<u>MED. DENSE</u>			
3	<u>3.0</u>		<u>100%</u>	<u>7</u>	<u>0</u>						<u>3.0</u>
4						<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>			
5											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 13 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB #14  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>7'</u>	<u>Sunny/Windy</u>		
LENGTH	<u>2</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate						
1		<u>S1 A-N</u>				<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2			<u>1.0/2.0</u>	<u>6</u>		<u>SAND fine grained w/ trace silt</u>	<u>yellow lite gray + brown</u>	<u>Loose to medium dense</u>	<u>Moist</u>		
3			<u>50%</u>	<u>4</u>					<u>Laminations</u>		
4		<u>S3</u>	<u>1.2/2.0</u>	<u>3</u>			<u>lite Brown to lite gray</u>	<u>Loose</u>	<u>Moist</u>		
5			<u>60%</u>	<u>3</u>							
6			<u>1.0/2.0</u>	<u>2</u>		<u>SAND fine grained</u>	<u>lite gray</u>	<u>Loose</u>			
7			<u>50%</u>	<u>5</u>		<u>END of Boring</u>			<u>Wet</u>		<u>water 7'</u>
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman Jr.  
 BORING NO.: Area C SB #14 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area c R1 FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 15

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>mobile Drill 3</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>9'</u>	<u>SUNNY/WINDY</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 9' taking continuous split spoon samples  
Rotary grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION						
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Pen. Rate	HMW PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
								Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>						<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>A-N</u>	<u>.8/20</u>	<u>10</u>				<u>SAND fine grained w/ trace silt</u>	<u>dk gray to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
3				<u>11</u>									
4			<u>1.2/20</u>	<u>11</u>					<u>lite brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
5				<u>12</u>									
6		<u>S4</u>	<u>1.3/20</u>	<u>12</u>				<u>SAND fine grained</u>	<u>lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
7				<u>13</u>									
8			<u>1.4/20</u>	<u>14</u>					<u>lite gray to brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>Water 7 1/2</u>
9				<u>17</u>									
10								<u>END of Boring</u>					

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Inc.

BORING NO.: Area c SB#15 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C P1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #16

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3/4" ID</u>		<u>8-28-92</u>	<u>9'</u>	<u>Sunny/Windy</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	RQD (Ft. & %)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION ROCK
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S1</u>					<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>	
2		<u>A-N</u>	<u>1.3 / 2.0</u>	<u>9</u>			<u>SAND fine grained w/ trace silt</u>	<u>dk. gray to lite gray to dk. brown</u>	<u>medium dense</u>	<u>Moist</u>	
3			<u>65%</u>	<u>10</u>							
4			<u>1.1 / 2.0</u>	<u>10</u>				<u>lite Brown</u>	<u>medium dense</u>	<u>Moist</u>	
5			<u>55%</u>	<u>6</u>							
6		<u>S4</u>	<u>1.3 / 2.0</u>	<u>4</u>			<u>SAND fine grained</u>	<u>lite Brown</u>	<u>medium dense</u>	<u>Moist</u>	
7			<u>65%</u>	<u>10</u>				<u>dk. Brown gray</u>	<u>medium dense</u>		
8			<u>.4 / 2.0</u>	<u>10</u>				<u>lite gray</u>	<u>medium dense</u>	<u>Laminations</u>	<u>Water 7 1/2'</u>
9			<u>20%</u>	<u>13</u>							
10							<u>END OF BORING</u>				

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, JR  
 BORING NO.: Area C SB #16 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #17(1)

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-29-92</u>	<u>9'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSR</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
		Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						HNU PID (ppm)
1		<u>S1</u>				<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry gravel, plant material</u>		
2		<u>A-N</u>	<u>1.2/2.0</u>	<u>10</u>		<u>SAND fine grained w/ trace silt</u>	<u>lite gray to brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>60%</u>	<u>9</u>	<u>1.1</u>						
4			<u>1.3/2.0</u>	<u>7</u>			<u>brown to lite brown</u>	<u>Loose to medium dense</u>	<u>Moist</u>		
5			<u>65%</u>	<u>3</u>	<u>1.1</u>						
6		<u>S4</u>	<u>1.3/2.0</u>	<u>2</u>		<u>SAND fine grained</u>	<u>brown to lite brown</u>	<u>Loose</u>	<u>Moist</u>		
7			<u>65%</u>	<u>4</u>	<u>1.1</u>						
8			<u>1.3/2.0</u>	<u>5</u>			<u>lite brown to dark brown to gray</u>	<u>medium dense</u>	<u>Wet</u>	<u>Water 7 1/2'</u>	
9			<u>65%</u>	<u>8</u>	<u>1.1</u>				<u>Laminations present</u>		
10				<u>11</u>		<u>END of Boring</u>					

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Terry Miza

BAKER REP.: J. E. Zimmerman, Jr

BORING NO.: Area C SB #17(1) SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C R/Fs Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 17(2)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>3/8" ID</u>		<u>3/4" ID</u>		<u>8-29-92</u>	<u>9'</u>	<u>Sunny / Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
				RQD (Ft. & %)	Pen. Rate						KNW PID (ppm)
1		S1 A-N				SILT w/ some sand	Buff	Loose	Dry Gravel, plant material		
2			1.1/20	9		SAND fine grained w/ trace silt	lite brown to lite gray to brown	medium dense	Moist		
3			55% 1.6/20	6			brown	Loose	Moist		
4											
5			80% 1.2/20			SAND fine grained	brown to lite brown	Loose	Moist		
6		S4									
7			60% 1.3/20	4			lite brown to dk. brown	medium dense	Wet		
8										water 7 1/2'	
9			65% 1.5	15					Laminations		
10						END of Boring	gray				

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman  
 BORING NO.: Area C SB # 17(2) SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RIFES CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 18  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/31/92</u>	<u>3.0'</u>	<u>SUNNY 85°-90°F</u>	<u>1.25'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 3' AT TWO FOOT INTERVALS. BOREHOLE CROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	<u>0.5</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT. BROWN</u>	<u>LOOSE</u>	<u>DRY SAND MOST WET WATER AT 1.25'</u>		
	<u>1.0</u>	<u>A-KS</u>										
2		<u>S-2</u>				<u>0</u>						
3	<u>3.0</u>											<u>3.0</u>
4							<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>			
5												
6												
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 18 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C RIFFS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #19

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-29-92</u>	<u>9'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.2	SILT w/ some sand	Buff	Loose	Dry Gravel		
2			1.3 /20	4		1.1	SAND fine grained w/ trace silt	lite gray to dark brown	medium dense	Moist		
3			60% 1.4 /20	4				lite gray to brown to lite brown	Loose to medium dense	Moist		
4				4		1.2						
5			70% 1.4 /20	4			SAND fine grained	lite gray	Loose	Moist		
6		S4		4		1.3						
7			70% 1.5 /20	4								
8				4		1.3		lite gray	Loose	wet		
9			70%	4			END of Boring					Water 7 1/2'
10												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Area C SB #19 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 20  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Mobile Drill 3					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3/4" ID		8-29-92	9'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSR						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		S1 A-N				SILT w/ some sand	Buff	Loose	Dry Gravel		
2			1.0/2.0	10		SAND fine grained w/ trace silt	light gray to dark brown	medium dense	Moist		
3			50%	10							
4			1.6/2.0	3			yellow/brown to light gray	medium dense	Moist		
5			80%	7							
6		S4	1.2/2.0	4		SAND fine grained	gray	medium dense	Moist		
7			60%	9							
8			1.7/2.0	6			gray to brown	medium dense	Wet		water 7/2'
9			85%	0							
10						END of Boring					

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman  
 BORING NO.: Area C SB # 20 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C R1/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SR # 21

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-29-92</u>	<u>9'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1 A-N</u>				<u>1.0</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2			<u>1.1/2.0</u>	<u>8</u>			<u>SAND fine grained w/ trace silt</u>	<u>lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>55%</u>	<u>12</u>								
4			<u>1.4/2.0</u>	<u>10</u>	<u>1.0</u>			<u>lite gray to brown to dk brown</u>	<u>Loose</u>	<u>Moist</u>		
5			<u>70%</u>	<u>9</u>		<u>1.1</u>						
6			<u>1.3/2.0</u>	<u>3</u>			<u>SAND fine grained</u>	<u>gray</u>	<u>Loose to medium dense</u>	<u>Moist</u>		
7		<u>S4</u>		<u>4</u>		<u>1.0</u>						
8			<u>65%</u>	<u>5</u>								
9			<u>1.4/2.0</u>	<u>3</u>				<u>gray</u>	<u>Loose to medium dense</u>	<u>Wet</u>		<u>Water 7 1/2</u>
10			<u>70%</u>	<u>4</u>		<u>1.0</u>	<u>END of Boring</u>					

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman  
 BORING NO.: Area C SB # 21 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 22  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>3/8" ID</u>		<u>3/4" ID</u>		<u>8-29-92</u>	<u>9'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>				<u>1.0</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel, Root material</u>		
2		<u>A+N</u>	<u>1.3/2.0</u>	<u>8</u>			<u>SAND fine grained w/ trace silt</u>	<u>DK. gray to lite gray to DK. brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>65%</u>	<u>10</u>		<u>1.0</u>						
4			<u>1.6/2.0</u>	<u>4</u>				<u>DK brown to brown to lite brown</u>	<u>Loose to medium dense</u>	<u>Moist</u>		
5			<u>80%</u>	<u>4</u>		<u>1.1</u>						
6		<u>S4</u>	<u>1.3/2.0</u>	<u>3</u>			<u>SAND fine grained</u>	<u>lite gray to brown to lite gray</u>	<u>Loose to medium dense</u>	<u>Moist</u>		
7			<u>65%</u>	<u>4</u>		<u>1.1</u>						
8			<u>1.1/2.0</u>	<u>3</u>				<u>lite gray</u>	<u>medium dense</u>	<u>Wet</u>		<u>water 7/2'</u>
9			<u>55%</u>	<u>8</u>		<u>1.1</u>						
10							<u>END of Boring</u>					

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman  
 BORING NO.: Area C SB # 22 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 23  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 3/4" I.D.</u>		<u>8/31/92</u>	<u>3.0'</u>	<u>SUNNY 85°-90°F</u>	<u>1.25'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO \_\_\_\_\_ FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	<u>0.5</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED</u> <u>TRACE SILT</u>	<u>LT. BROWN</u>	<u>LOOSE</u>	<u>DRY DRIP MOST WET WATER AT 1.25'</u>		
	<u>1.0</u>	<u>A-NS</u>										
2		<u>S-2</u>	<u>20</u>	<u>3</u>		<u>0</u>						
3	<u>3.0</u>		<u>100%</u>	<u>4</u>								<u>3.0</u>
4				<u>5</u>			<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>			
5				<u>6</u>								
6				<u>7</u>								
7				<u>8</u>								
8				<u>9</u>								
9				<u>10</u>								

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 23 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'C' RI/FS CAMPLETUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 24  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/23/12</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1	<u>0.5</u>	<u>S-1</u>				<u>SAND, FINE GRAINED, SOME FINE TRACE SILT</u>	<u>GRAY</u>		<u>DRY</u>		
	<u>1.0</u>	<u>A-NS</u>							<u>DAMP</u>		
2		<u>S-2</u>	<u>2.0</u>	<u>8</u>		<u>SAND, FINE GRAINED</u>	<u>LT. BROWN</u>	<u>MEAN.</u>			
3	<u>3.0</u>		<u>100%</u>	<u>8</u>		<u>TRACE SILT</u>	<u>BLACK</u>	<u>DENSE</u>			
4		<u>S-3</u>	<u>2.0</u>	<u>3</u>			<u>GRAY</u>				
5	<u>5.0</u>		<u>100%</u>	<u>3</u>			<u>BROWN</u>	<u>LOOSE</u>	<u>MOIST</u>		
				<u>3</u>					<u>WET, WATER TABLE NOTED 5.0'</u>		
				<u>4</u>							
						<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 24 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMPELJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB25  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 3/8" I.D.</u>			<u>3/4" I.D.</u>		<u>8/28/92</u>	<u>7.0</u>	<u>SUNNY 45-90°F</u>	<u>5.25'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1	<u>0.5</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, SOME FILL</u>	<u>GRAY</u>		<u>DRY</u>	
	<u>1.0</u>	<u>A+NS</u>									
2			<u>0.6</u>	<u>14</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>		<u>DENSE</u>		
3	<u>3.0</u>	<u>S-2</u>	<u>30%</u>	<u>14</u>		<u>0</u>				<u>DAMP</u>	
4			<u>1.5</u>	<u>3</u>			<u>SAME AS ABOVE</u>	<u>LT. BROWN</u>	<u>LOOSE</u>		
5	<u>5.0</u>	<u>S-3</u>	<u>75%</u>	<u>3</u>		<u>0</u>				<u>MOIST</u>	
6			<u>1.8</u>	<u>4</u>				<u>GRAY</u>		<u>NET, WATER TABLE AT 5.25'</u>	
7	<u>7.0</u>	<u>S-4</u>	<u>90%</u>	<u>3</u>		<u>0</u>	<u>SAME AS ABOVE</u>				<u>7.0</u>
8							<u>END OF BORING</u>	<u>AT</u>	<u>7.0</u>		
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB25 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 26  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/28/92</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	<u>0.5</u> <u>110</u>	<u>S-1</u> <u>AMS</u>				<u>0</u>	<u>SAND, FINE GRAINED, LITTLE FILL, TRACE SILT</u>	<u>LT. BROWN</u>		<u>DRY</u>		
2		<u>S-2</u>	<u>1.4</u>	<u>5</u> <u>7</u> <u>5</u>		<u>0</u>	<u>SAND, FINE GRAINED</u>	<u>GRAY</u>	<u>MED. DENSE</u>	<u>DAMP</u>		
3	<u>3.0</u>		<u>70%</u>	<u>5</u>		<u>0</u>	<u>TRACE SILT</u>	<u>LT. BROWN</u>				
4		<u>S-3</u>	<u>1.4</u>	<u>5</u> <u>7</u> <u>6</u>		<u>0</u>				<u>MOIST</u>		
5	<u>5.0</u>		<u>70%</u>							<u>WATER TABLE AT 5.0'</u>		
6							<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
7												
8												
9												
10												

DRILLING CO.: HARDIN - HUBER  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 26 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB27  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/25/72</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.75</u>	<u>TUB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD						VISUAL DESCRIPTION					SOIL ELEVATION
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	
		ROCK	Type-No. (N = No Samp.)	RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
0.5		S-1			0	SAND, FINE GRAINED, TRACE SILT, TRACE FILL	LT. BROWN		BY DUMP		
1.0		S-2	1.8	4	0	SAND, FINE GRAINED, TRACE SILT		MED. DENSE			
3.0		S-3	90%	4							
2.0			2.0	3	0		DRY	LOOSE	MOIST		
5.0			100%	5			GRAY		NET WATER AT 4.75'		5.0
5.0						END OF BORING	AT	5.0'			
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB27 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 28  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SOINY 85-90°F</u>	<u>3.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
1	<u>0.5</u>	<u>S-1</u>				<u>SAND, FINE GRAINED, TRACE FILL, TRACE SILT</u>	<u>LT. BROWN</u>	<u>LT. DENSE</u>	<u>NO</u>		
	<u>1.0</u>	<u>A-NS</u>							<u>MOST WET WATER AT 2.0</u>		
2		<u>S-2</u>	<u>1.7</u>	<u>4</u>		<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>	<u>MED. DENSE</u>			
3	<u>3.0</u>		<u>756</u>	<u>7</u>	<u>0</u>					<u>3.0</u>	
4						<u>END. OF BORING</u>	<u>AT</u>	<u>2.0</u>			
5											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 28 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'C' RI/FS CAMPLEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB30  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 3/4" I.D.</u>			<u>3/4" I.D.</u>		<u>8/28/92</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD						VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
						Type No. (N = No Samp.)				
0.5		S-1			0	SAND, FINE GRAINED, SOME FILL, TRACE SILT	LT. BROWN		DRY	
1.0		A-NS							DAMP	
2		S-2	13		0	SAND, FINE GRAINED TRACE SILT	DARK BROWN	MED. DENSE		
3			10							
3.0			5							
4		S-3	6		0		BLACK GRAY BROWN	LOOSE		4.0
4			4							
4			4							
5			4				LT. BROWN		MOIST WET WATER AT	5.0
5			3			SAND, FINE GRAINED, TRACE ORGANICS, SOME SILT				
6						END OF BORING	AT	5.0'		
7										
8										
9										
10										

DRILLING CO.: HARDIN - HUBER  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 30 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'C' RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB31  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/28</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT	Lab. Class.		Classification	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				Blows Per 0.5'			(Grain Size, Principal Constituents, Etc.)					
		Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	(Name, Grain Size, Principal Constituents, Etc.)		Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	<u>0.5</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, LITTLE FILL</u>	<u>LT. BROWN</u>		<u>DRY</u>		
	<u>1.0</u>	<u>A-NS</u>						<u>LT. BROWN</u>		<u>DAMP</u>		
2		<u>S-2</u>	<u>1.4</u>	<u>8</u>		<u>0</u>	<u>SAND, FINE GRAINED</u>	<u>BULKY LIGHT GRAY</u>	<u>MEG. DENSE</u>			
3	<u>3.0</u>		<u>45%</u>	<u>6</u>			<u>TRACE SILT</u>	<u>LT. BROWN BULKY LIGHT GRAY</u>		<u>MOIST</u>		
4		<u>S-3</u>	<u>1.7</u>	<u>4</u>		<u>0</u>		<u>BROWN</u>				
5	<u>5.0</u>		<u>85%</u>	<u>3</u>						<u>NET WATER AT 5.0'</u>		<u>5.0</u>
6							<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB31 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 2' RI/FS CAMP LITTLEONE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB32  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/29/92</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate		PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A+ps</u>				<u>SAND, FINE GRAINED, TRACE SILT, LITTLE FILL</u>	<u>GRAY</u> <u>BLACK LT. BROWN</u>	<u>---</u>	<u>---</u> <u>DAMP</u>		
2		<u>S-2</u>	<u>2.0</u>	<u>6</u>		<u>SAND, FINE GRAINED TRACE SILT</u>	<u>BLACK</u>	<u>MED. DENSE</u>			
3	<u>3.0</u>		<u>100%</u>	<u>8</u>			<u>GRAY</u>				
4		<u>S-3</u>	<u>1.8</u>	<u>4</u>			<u>BROWN</u>	<u>LOOSE</u>	<u>WET</u>	<u>4.0</u>	
5	<u>5.0</u>		<u>90%</u>	<u>3</u>		<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BROWN</u>		<u>WET WATER TRACE AT 5.0'</u>		
6						<u>END OF BORING</u>		<u>5.0'</u>			
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB32 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS Camp LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB33  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/31/92</u>	<u>3.0</u>	<u>SUNNY 85°-90°F</u>	<u>2.75</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS4</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 3 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-3' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
0.5		S-1					SAND, FINE GRAINED, TRACE SILT, TRACE FILL	LT. BROWN	---	GMP CAMP MOIST	
1.0		A-NS									
2.0		S-2	1.0	44			SAND, FINE GRAINED, TRACE SILT	GRAY	LOOSE	NET WATER AT 2.0'	
3.0			50%	44							3.0
4.0							END OF BORING AT	AT	3.0'		
5.0											
6.0											
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB33 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA 'C' RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB34  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/4" I.D.</u>		<u>3/4" I.D.</u>		<u>8/29/12</u>	<u>5.0'</u>	<u>SUNNY 85-90°F</u>	<u>4.75'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>AWS</u>				<u>0</u>	<u>SAND, FINE GRAINED, LITTLE FILL, TRACE SILT</u>	<u>LT. BROWN</u>	<u>---</u>	<u>DRY DAMP</u>		
2		<u>S-2</u>	<u>1.5</u>	<u>11</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>		<u>MED. DENSE</u>	<u>MOIST</u>		
3	<u>3.0</u>		<u>7.0</u>	<u>7</u>				<u>GRAY</u>	<u>LOOSE</u>			
4		<u>S-3</u>	<u>0.9</u>	<u>4</u>		<u>0</u>						
5	<u>5.0</u>		<u>4.5</u>	<u>4</u>			<u>SAND, FG, LITTLE FILL, TRACE SILT</u>	<u>BROWN</u>		<u>WET, WATER AT 4.75'</u>		<u>4.75'</u> <u>5.0'</u>
6							<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
7												
8												
9												
10												

DRILLING CO.: HARDIN - HUBER  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB34 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMPLEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB35  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/21/92</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>4.75'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain-Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1	<u>D.S</u>	<u>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, SOME FILL, TRACE SILT</u>	<u>LT. BROWN</u>		<u>DRY</u>		
	<u>1.0</u>	<u>A-NS</u>						<u>GRAY</u>		<u>DAMP</u>		
2		<u>S-2</u>	<u>0.9</u>	<u>6</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT. BROWN</u>	<u>MED. DENSE</u>	<u>MOIST</u>		
3	<u>3.0</u>		<u>45%</u>	<u>11</u>								
4		<u>S-3</u>	<u>1.2</u>	<u>9</u>		<u>0</u>						
5	<u>5.0</u>		<u>60%</u>	<u>7</u>				<u>BROWN</u>		<u>WET, WATER TABLE AT 4.75' 5.0'</u>		
6							<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB35 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA "C" RI/FS CAMPEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB36  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/29/92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION								
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION			
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK				
0.5		S-1				0	<u>SAND, FINE GRAINED, SOME FILL, TRACE SILT</u>	<u>Dr. Brown</u>		<u>DRY</u>					
1.0		A-NS													
1.7				5			<u>SAND, FINE GRAINED TRACE SILT</u>	<u>BLACK GRAY</u>	<u>MED. DENSE</u>	<u>DAMP</u>					
2.7		S-2		6		0									
3.0				9											
3.7				85%						<u>MOIST</u>					
4.7				1.9					<u>LOOSE</u>						
5.0		S-3		5		0		<u>BROWN LT. BROWN</u>		<u>WET WATER TABLE NOTED AT 5.0'</u>					
5.3				3											
5.7				7											
6.0							<u>End of Boring at 5.0</u>								
7.0															
8.0															
9.0															
10.0															

DRILLING CO.: HARDIN-HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB36 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 201 AREA C' RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB37  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/29/12</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
	ROCK	Type No. (N = No Samp.)								RQD (Ft & %)	Pen. Rate
0.5		S1									
1.0		A-NS									
2			13	5							
3		S2	65%	6							
4			14	3					4.0		
5		S3	70%	4							
5.0											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB37 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 201 Area C RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 41

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>3/8" ID</u>		<u>3/4" ID</u>		<u>8-30-92</u>	<u>8'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSI</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 8' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft & %)	Pen. Rate						
1		S1	1.0 / 2.0	32 25		SILT w/ some sand SAND fine grained w/ trace silt	buff like gray	Loose dense	Dry, Gravel to moist laminations		
2			50%	17			dk gray				
3			1.2 / 2.0	16			lite gray to	medium dense	moist		
4			60%	100			dk Brown				
5		S3	1.7 / 2.0	100		SAND fine grained	lite Brown	medium dense	moist		
6			35%	80							
7			1.3 / 2.0	130			lite Brown to lite gray	medium dense	wet		
8			65%	15							
9						END of boring					
10											

Water  
6 1/2'  
7'

DRILLING CO.: Hardin, Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.

BORING NO.: Area C SB# 41 SHEET 1 OF 1



**D.4**  
**Grid DDT Grid**

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# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	5'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
WICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Rosehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HSW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1 A-N				1.2	SILT w/ some sand	gray	Loose	Damp Root material		
2			1.5 2.0	21 24 20		1.3	SAND fine grained w/ trace silt	brown to like brown	dense	moist		
3			75%	22			SAND fine grained	like brown				
4						1.4		like brown	medium dense	Wet		Water 4' to 4 1/2'
5							END of Boring					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR.  
 BORING NO.: DDT SB# 2 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		9-9-92	5'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION						
DEPTH	SOIL / ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	RQD (Ft. & %)	Pen. Rate	K <sub>sp</sub> / PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
		Type No. (N = No Samp.)						(Ft. & %)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		S1 A-N					1.1	SILT w/ some sand	brown to gray	Loose	Damp Plant material		
2		S2	11.5 20	9 14 21			1.2	SAND fine grained w/ trace silt	brown	dense	moist		
3			75%	24									
4			1.4 20	9 19 17			1.0	SAND fine grained	brown	dense	wet (at bottom)		
5			70%	21				END of Boring					Water 5'
6													
7													
8													
9													
10													

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: DDT SB# 2 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB-3  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9-1-92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS4</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 5' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type-No. (N = No Samp.)									(Ft. & %)
1		<u>S-1</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GREY</u>		<u>DAMP</u>			
2		<u>S-2</u>	<u>1.6</u>		<u>SAME AS ABOVE</u>	<u>LIGHT GREY</u>	<u>LOOSE</u>	<u>MOIST ORANGE MOTTLING FROM 1-2 FEET.</u>			
3			<u>80%</u>								
4		<u>S-3</u>	<u>1.8</u>				<u>LIGHT GREY</u>	<u>MEDIUM DENSE</u>	<u>WET WATER AT 5.0'</u>		
5			<u>90%</u>								
6					<u>END OF BORING AT 5.0</u>						
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB3 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB4  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9/1/92</u>	<u>7.0</u>	<u>SUNNY 85-90°F</u>	<u>5.5</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									Samp. Rec. (Ft. & %)
1	<u>0.5</u>	<u>S-1</u>									
2	<u>1.0</u>	<u>A-NS</u>	<u>18</u>	<u>4</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>	<u>DRY</u>	<u>DAMP</u>			
3	<u>3.0</u>	<u>S-2</u>	<u>90%</u>	<u>5</u>			<u>MEG.</u>				
4			<u>1.2</u>	<u>6</u>			<u>DENSE</u>				
5	<u>5.0</u>	<u>S-3</u>	<u>60%</u>	<u>7</u>	<u>SAME AS ABOVE</u>	<u>ORANGE GRAY</u>		<u>MOST WET WATER AT 5.5'</u>			
6			<u>1.8</u>	<u>6</u>							
7	<u>7.0</u>	<u>S-4</u>	<u>90%</u>	<u>4</u>						<u>7.0</u>	
8					<u>END OF BORING AT 7.0'</u>						
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CITSUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB4 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SBS  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9/1/92</u>	<u>7.0</u>	<u>SPRINKY 85-90°F</u>	<u>7.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30'</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7' FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)							Pen. Rate
1	<u>0.5 I.D.</u>	<u>S-1 A-NS</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>		<u>DRY</u>		<u>1.25</u>	
2		<u>S-2</u>	<u>1.9</u>	<u>3</u>	<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BROWN</u>		<u>DAMP</u>		<u>1.25</u>	
3	<u>3.0</u>		<u>90%</u>	<u>3</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>	<u>LOOSE</u>				
4		<u>S-3</u>	<u>0.9</u>	<u>3</u>	<u>SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY</u>	<u>LT. BROWN</u>	<u>LOOSE</u>	<u>MOIST</u>			
5	<u>5.0</u>		<u>45%</u>	<u>6</u>							
6		<u>S-4</u>	<u>2.0</u>	<u>5</u>	<u>SAND, FINE GRAINED, TRACE SILT, TRACE CLAY</u>	<u>LT. BROWN</u>	<u>MED. DENSE</u>				
7	<u>7.0</u>		<u>100%</u>	<u>8</u>				<u>WET WATER AT</u>		<u>7.0</u>	
8					<u>END OF BORING</u>	<u>AT</u>	<u>7.0'</u>				
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SBS SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 6  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	5'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	K <sub>sp</sub> PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
							ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)		
1		S1				1.1	SILT w/ some sand	brown to gray	Loose	Damp Root/Plant material		
2		A-N		11			SAND fine grained w/ trace silt	brown to lite brown	medium dense	moist orange streaks		
3		S2	1.6 / 2.0	9		1.1						
4			85%	11			SAND fine grained					
5			1.7 / 2.0	5		1.1		brown	medium dense	Wet (at bottom)		Water 5'
6			85%	100			END of Boring					
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR.  
 BORING NO.: DDT SB# 6 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area RIFs Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	5'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Rosehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations		SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)				Pen. Rate	Moist. PID (ppm)		Classification (Name, Grain Size, Principal Constituents, Etc.)
1		S1 A-N			1.3	SILT w/ some sand	gray	Loose	Damp Root/Plant material		
2		S2	13 2.0	6 7 9	1.2	SAND fine grained w/ trace silt	lite brown	medium dense	Moist orange streaks		
3			65%	16							
4			14 2.0	5 13 16	1.2	SAND fine grained	lite brown to lite gray	medium dense	Wet (at bottom)		
5			70%	22		END of Boring				Water 5'	
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR.  
 BORING NO.: DDT SB# 7 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area RIF/S Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	5'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Rosehole grouted to surface

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		S1 A-N				SILT w/ some sand	buff to dk. brown	Loose	Damp Plant material		
2		S2	1.3 / 2.0	9 12 13 15		SAND fine grained w/ trace silt	lite brown	medium dense	moist		
3			65%								
4			1.6 / 2.0	5 10 10 12		SAND fine grained	lite gray	medium dense	wet (at bottom)		
5			80%			END of Boring					Water 5'
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR.  
 BORING NO.: DDT SB# 8 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB#9

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	5'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Pen. Rate	MWD PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)					(Ft. & %)	RQD (Ft. & %)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color		
1		S1 A-N	9			1.4	SILT w/ some sand	Brown	Loose	Damp Root/Plant material		
2		S2	11 10			1.4	SAND fine grained w/ trace silt	brown to gray to lite brown	medium dense	moist Bark present		
3			14				SAND fine grained					
4			7 10			1.4		brown	medium dense	Wet (at bottom)		
5			14				END of Boring					Water 5'
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR.

BORING NO.: DDT SB#9

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	5'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
PICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	K <sub>100</sub> PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)									
1		S1 A-N			1.3	SILT w/ some sand	Brown	Loose	Damp Root / Plant material		
2		S2	1.0 2.0	8 7 10	1.1	SAND fine grained w/ trace silt	brown to lite brown	medium dense	moist		
3			50%	13							
4			1.6 2.0	6 9 12	1.1	SAND fine grained	brown	medium dense	Wet orange striations (at bottom)		
5			80%	14		END of Boring					Water 5'
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR.  
 BORING NO.: DDT SB# 10 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 11  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	3'	Partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WAIL	30"								
TICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		Mo. PID (ppm)	Color	Hardness		
1		S1				SILT w/ some sand	brown to gray	Loose	Damp Root material, oxidation		
2		A-N S2	1.8 2.0	5 6 7		SAND fine grained w/ trace silt	dk. brown to brown	medium dense	Moist to wet (at bottom)		
3			90%			END of boring					Water 3'
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR.  
 BORING NO.: DDT SB# 11 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 12  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	3'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
CALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION						
D. E. P. T. H.	S O I L	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	S O I L	E L E V A T I O N		
				RQD (Ft. & %)	Pen. Rate							Mo. PID (ppm)	Color
1		S1				SILT w/ some sand	gray to brown	Loose	Damp Root material				
2		A-N	1.6	10		SAND fine grained w/ trace silt	brown	medium dense	Moist to wet (at bottom)				
		S2	20	11									
		....		12	.9								
3			80%	14		END of boring					Water 3'		
4													
5													
6													
7													
8													
9													
10													

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: DDT SB# 12 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 13  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	3'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WELL	30"								
PICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type-No. (N = No Samp.)		RQD (FL & %)	Pen. Rate		Moist. PID (ppm)	Color			Hardness
1		S1 A-N				SILT w/ some sand	yellow brown to dk gray	Loose			
2		S2	1.7 20	9 13 15		SAND fine grained w/ trace silt	light gray to light brown	medium dense	Moist to wet w/ oxidation streaks (at bottom)		
3			85%	22		END of boring				Water 3'	
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: DDT SB# 13 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#14  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-9-92	5'	partly Sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
TICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Rosehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
	ROCK	Type No. (N = No Samp.)								(Ft. & %)	RQD (Ft. & %)
1		S1 A-N			.9	SILT w/ some sand	Brown	Loose	Damp	Root material	
2		S2	16 20	6 10	10	SAND fine grained w/ trace silt	brown	medium dense	moist		
3			80%	11							
4			13 20	3 4	10	SAND fine grained	brown	Loose to medium dense	Wet		
5			65%	4 6		END of Boring					water 4 1/2 to 5'
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR.  
 BORING NO.: DDT SB#14 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 15  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/1/92</u>	<u>510</u>	<u>SUNNY 85°-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 5' AT TWO FOOT INTERVALS. BOREHOLE GRADED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									Samp. Rec. (Ft. & %)
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>			<u>SAND, FINE GRAINED</u> <u>TRACE SILT</u>	<u>LT</u> <u>BROWN</u>	<u>LOOSE</u>	<u>DRY</u> <u>DAMP</u>			
2		<u>S-2</u>	<u>1.2</u>	<u>3</u> <u>4</u> <u>3</u>		<u>0</u>			<u>GRAY</u>	<u>MOIST</u>	
3	<u>3.0</u>		<u>60%</u>	<u>4</u> <u>4</u> <u>3</u>							
4		<u>S-3</u>	<u>1.3</u>	<u>4</u> <u>4</u> <u>9</u>		<u>0</u>		<u>MED. DENSE</u>	<u>WET</u>		
5	<u>5.0</u>		<u>65%</u>	<u>12</u>				<u>WATER AT 5.0</u>			
6					<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>				
7											
8											
9											
10											

DRILLING CO.: HARWIN-HUBER, INC.  
 DRILLER: CHARLES CITSUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 15 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area RI/FS Camp Lejeune  
 S.O. NO.: \_\_\_\_\_ BORING NO.: SB #16  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		9-9-92	5'			
LENGTH	2'		5'				Partly Sunny/humid		
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	H <sub>2</sub> O PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1 A-N				.8	SILT w/ some sand	Brown	Loose	Damp Root/Plant material		
2		S2	1.6/20	11		.8	SAND fine grained w/ trace silt	Brown	medium dense	Moist		
3			80%	13								
4			1.8/2.0	2		.8	SAND fine grained	lite Brown	medium dense	Wet		
5			90%	12								
6				14			END of Boring					water 4 1/2 to 5'
7				22								
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR.  
 BORING NO.: DDT SB #16 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, DDT Disposal Area, RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 17  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG:					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-10-92</u>	<u>7</u>	<u>Sunny 90°</u>	<u>—</u>	<u>—</u>
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7.0' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		<u>S1</u> <u>A-N</u>				<u>Fine sand, little silt</u>	<u>light gray</u>		<u>dry; roots present</u>		
2		<u>S2</u>	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>9</u> <u>18</u> <u>22</u>		<u>Top 14" fine sand and little silt; trace fine gravel</u>	<u>medium gray</u>	<u>dense</u>	<u>dry</u>		
3				<u>21</u>		<u>fine sand and silt</u>	<u>brown</u>		<u>damp</u>		
4		<u>S3</u>	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>8</u> <u>8</u> <u>13</u> <u>18</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>damp</u>		
5						<u>fine sand little silt</u>			<u>water at 6.0ft</u>		
6		<u>S4</u>	<u>1.67</u> <u>2.0</u>	<u>7</u> <u>8</u> <u>11</u> <u>12</u>		<u>fine sand little silt</u>	<u>light gray</u>	<u>medium dense</u>			
7						<u>End of Boring at 7.0ft</u>					
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: Chad Chism BORING NO.: DDT SB 17 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS Camp LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 18  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
1 3/8" I.D.			3 1/4" I.D.		9-2-92	5.0	SUNNY 85-90°F	5.0	TOB
LENGTH	2.0'		5.0'						
TYPE	STD		HS4						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: BORING ADVANCED TO 5.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - AT TWO FOOT INTERVALS. BOREHOLE GRADED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1	0.5 1.0	S-1 A-NS									
2		S-2	1.6	7		SAND, fine grained, TRACE SILT	grey	Med. Dense	DRY DAMP		
3	3.0		80%	9 10 11							
4		S-3	1.4	6 7 11		SAME AS ABOVE		Medium Dense	MOIST WET		
5	5.0		70%	12							
6						END OF BORING = 5.0					
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 18 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 1913-50-SRN BORING NO.: SB 19  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9-2-92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSH</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>				<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GREY</u>		<u>DRY DAMP</u>		
2		<u>S-2</u>	<u>1.6</u>	<u>7</u>							
3	<u>3.0</u>		<u>80%</u>	<u>10</u> <u>11</u>							
4		<u>S-3</u>	<u>1.4</u>	<u>6</u> <u>7</u> <u>11</u> <u>12</u>		<u>SAME AS ABOVE</u>			<u>MOIST WET</u>		
5	<u>5.0</u>		<u>70%</u>						<u>WATER AT 5.0</u>		
6						<u>END OF BORING - 5.0</u>					
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 19 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB20  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/1/92</u>	<u>5.0</u>	<u>SKINNY 85-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS4</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		S-1 A-NS				SAND, FINE GRAINED, TRACE SILT	LT. BROWN		DRY DAMP		
2		S-2	1.4	4		SAND, FINE GRAINED, TRACE SILT	BROWN	LOOSE			
3			20%	4							
4		S-3	1.2	5		SAND, FINE GRAINED, TRACE SILT	GRAY	MED. DENSE	MOIST		
5			60%	7					WET WATER AT 5.0		
6						END OF BORING	AT	5.0'			
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB20 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DOT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB21  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9-2-92</u>	<u>5.0</u>	<u>SUNNY 85°-90°F</u>	<u>4.75</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSH</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE CROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type-No. (N = No Samp.)									Samp. Rec. (Ft & %)
1	<u>0.5</u>	<u>S-1</u>									
	<u>1.0</u>	<u>A-NS</u>									
2		<u>S-2</u>	<u>1.40</u>								
3	<u>3.0</u>		<u>70%</u>								
4		<u>S-3</u>	<u>1.3</u>								
5	<u>5.0</u>		<u>65%</u>								
6											
7											
8											
9											
10											

DRILLING CO.: HARWIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 21 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB22  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 3/8" I.D.</u>			<u>3 1/4" I.D.</u>		<u>9-2-92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>4.5</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS#</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 5' AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									(Ft. & %)
0.5		S-1									
1.0		A-NS									
2.0		S-2	16								
3.0			80%								
4.0		S-3	2.0								
5.0			100%								
6.0											
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CITSUM BORING NO.: SB22 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 23  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9-2-92</u>	<u>5.0</u>	<u>SUNNY 85°-90° F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS#</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-8"  
AT TWO FOOT INTERVALS. BOREHOLE CROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									RQD (Ft & %)
1	<u>0.5</u>	<u>S-1</u>									
	<u>1.0</u>	<u>A-NS</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GREY</u>		<u>DRY DAMP</u>			
2		<u>S-2</u>	<u>1.4</u>	<u>6</u>			<u>MEDIUM DENSE</u>				
3	<u>3.0</u>		<u>70%</u>	<u>8</u>	<u>SAME AS ABOVE</u>						
4		<u>S-3</u>	<u>1.5</u>	<u>9</u>			<u>DENSE</u>	<u>MOIST WET</u>			
5	<u>5.0</u>		<u>75%</u>	<u>10</u>				<u>WATER AT 5.0</u>			
6					<u>END OF BORING = 5.0</u>						
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CITSUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 23 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Lot 203

PROJECT: DDT Storage

RIFES Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 24

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-10-92</u>	<u>7.0</u>	<u>Sunny 90°</u>	<u>—</u>	<u>—</u>
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7.0' taking continuous split spoon samples  
Borehole grouted to surface. Note boring was advanced with hand auger

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u> <u>A-N</u>		<u>NA</u>		<u>0</u>	<u>fine sand, little silt, trace clay</u>	<u>light gray</u>		<u>dry, root particulates present</u>		
2		<u>S2</u>		<u>NA</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>yellow brown</u>		<u>dry</u>		
3												
4		<u>S3</u>		<u>NA</u>		<u>3</u>	<u>DD</u>	<u>buff with yellow mottling</u>		<u>damp</u>		
5												
6		<u>S4</u>		<u>NA</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>buff</u>		<u>damp</u>		
7										<u>moist at 6.5'</u> <u>water at 7.0'</u>		
8				<u>NA</u>			<u>End of Boring at 7.0'</u>					
9												
10												

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: D.J. Martin

DRILLER: Chad Chism

BORING NO.: DDT D-1001 SB24 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 17133-50-SRN BORING NO.: SB25  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9-2-92</u>	<u>5.0</u>	<u>SUNNY 85-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate						
1	<u>0.5</u>	<u>S-1</u>									
	<u>1.0</u>	<u>A+NS</u>				<u>SAND, FINE GRAINED, GREY</u>			<u>DRY</u>		
			<u>1.9</u>	<u>7</u>		<u>TRACE SILT</u>			<u>DAMP</u>		
2		<u>S-2</u>		<u>18</u>				<u>V. DENSE</u>			
3	<u>3.0</u>		<u>95%</u>	<u>19</u>		<u>SAME AS ABOVE</u>			<u>MOIST</u>		
4		<u>S-3</u>	<u>1.9</u>	<u>10</u>				<u>DENSE</u>	<u>WET</u>		
5	<u>5.0</u>		<u>95%</u>	<u>16</u>					<u>WATER AT 5.0</u>		
6						<u>END OF BORING = 5.0</u>					
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB25 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: lot 203 DDT Disposal Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 26  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG:					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 7/8" ID		3/4" ID						
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 8.0' taking continuous ~~split spoon~~ <sup>Hand auger</sup> samples  
Borehole grouted to surface. Note: Boring was advanced with hand auger.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1		NA		0	fine sand, little silt	brown-gray	NA	dry trace root particulates	
2		S2		NA		0	Silt, some fine sand little clay	lt. brn with orange mottling	↓	damp mostly plastic	
3							Silt and fine sand, little clay	lt. orange brown		damp	
4		S3		NA		0	fine sand, some silt	light brown		some orange mottling	
5							fine sand, little silt			damp moist at 5.5'	
6		S4		NA		0					
7							fine sand, little silt			moist	
8		S5		NA		NA				wet	water @ 8.0'
9							End of boring at 8.5'				
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Chad Chism

BAKER REP.: D.J. Martin  
 BORING NO.: DDT Disposal SB26 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DOT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 27  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/1/92</u>	<u>7.0</u>	<u>SUNNY 85-90°F</u>	<u>7.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>MSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30'</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-2' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
0.5		S-1				0						
1.0		A-NS										
1.7			1.7	7			SAND, FINE GRAINED, TRACE SILT	GRAY LT. BROWN	MED. DENSE	DRY DAMP		
2.0		S-2		6		0						
3.0			95%	5								
1.9			1.9	2			SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY	LT BROWN	LOOSE	MOIST		4.0
3.0		S-3	95%	3		0						
5.0				2								
1.7			1.7	2			SAND, FINE GRAINED, TRACE SILT		LOOSE	WET WATER AT		6.0
3.0		S-4	85%	3		0						
7.0				3								7.0
							END OF BORING AT	AT	7.0'			

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 27 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 28  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/1/92</u>	<u>7.0</u>	<u>SUNNY 85°-90° F</u>	<u>5.25'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									(Ft. & %)
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>			<u>SAND, FINE GRAINED</u> <u>TRACE SILT</u>  <u>SAME AS ABOVE</u>	<u>LT. BROWN</u> <u>GRM</u>		<u>DRY</u> <u>DAMP</u>			
2		<u>S-2</u>	<u>9</u>				<u>MD.</u> <u>DENSE</u>				
3	<u>3.0</u>		<u>100%</u>					<u>MAST</u>			
4		<u>S-3</u>	<u>7</u>								
5	<u>5.0</u>		<u>90%</u>				<u>GRM</u>		<u>WET</u> <u>WATER AT 5.25'</u>		
6		<u>S-4</u>	<u>7</u>					<u>LOOSE</u>			
7	<u>7.0</u>		<u>100%</u>							<u>70</u>	
8					<u>END OF BORING AT 7.0'</u>						
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 28 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 29  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/1/92</u>	<u>9.0</u>	<u>SHINY 85-90°F</u>	<u>7.25'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS#</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30'</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 9 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-9' AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1	0.5 1.0	S-1 A-NS				0	SAND, FINE GRAINED, TRACE SILT	ORANGE		DAMP		
2		S-2	1.4	4 5 5		0		CRAY BROWN	LOOSE			
3	3.0		70%	5			SAME AS ABOVE			MOIST		
4		S-3	1.4	3 4 5		0		LT BROWN				
5	5.0		70%	8			SAME AS ABOVE			WET WATER AT 7.25'		
6		S-4	1.3	3 4 5		0						
7	7.0		65%	6			SAME AS ABOVE			WET WATER AT 7.25'		
8		S-5	2.0	3 4 4		0		CRAY	LOOSE			
9	9.0		100%	6			END OF BORING	AT	9.0'			
10												

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 29 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DOT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 30  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9-1-92</u>	<u>5.0</u>	<u>SUNNY 85°-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS#</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS, BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				RQD (Ft. & %)	Pen. Rate	PID (ppm)						
1	<u>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>					<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LIGHT BROWN</u>		<u>DRY DAMP</u>		
2		<u>S-2</u>	<u>1.2</u>	<u>12</u>					<u>DENSE</u>			
3	<u>3.0</u>		<u>60%</u>	<u>12</u>			<u>SAME AS ABOVE</u>	<u>GREY</u>				
4		<u>S-3</u>	<u>1.2</u>	<u>7</u>					<u>MEDIUM DENSE</u>	<u>MOIST WET</u>		
5	<u>5.0</u>		<u>60%</u>	<u>7</u>				<u>GREY</u>		<u>WATER AT 5.0</u>		
6							<u>END OF BORING</u>	<u>5.0</u>				
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CARLES CHISUM BORING NO.: SB 30 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB31  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>9/1/92</u>	<u>5.0'</u>	<u>SUNNY 85°-90°F</u>	<u>5.0'</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS4</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate	PID (ppm)						
1		S-1 ANS					SAND, FINE GRAINED, TRACE SILT	LT BROWN		DRY DAMP		1.0
2		S-2	1.8	8			SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY	LT BROWN	MED. DENSE			
3			90%	6								3.0
4		S-3	2.0	4			SAND, FINE GRAINED, TRACE SILT		MED. DENSE			
5			100%	4				GRAY		MOST WET WATER AT 5.0'		
6							END OF BORING	AT	5.0'			
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB31 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RE/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 32  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9-1-92</u>	<u>7.0</u>	<u>SUNNY 85°-90° F</u>	<u>7.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS#</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS, BOREHOLE CROUTED TO SURFACE.

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate						
1	<u>0.5</u>	<u>S-1</u>				<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>Grey</u>		<u>DRY DAMP</u>		
2	<u>1.0</u>	<u>A-NS</u>						<u>LOOSE</u>			
3		<u>S-2</u>	<u>2.0</u>	<u>3</u>							
4			<u>100%</u>	<u>3</u>		<u>SAND, FINE GRAINED, LITTLE SILT</u>	<u>LIGHT BROWN</u>	<u>LOOSE</u>	<u>MOIST</u>		<u>2.5</u>
5		<u>S-3</u>	<u>2.0</u>	<u>3</u>		<u>SAND, FINE GRAINED, TRACE SILT</u>		<u>LOOSE</u>	<u>MOIST</u>		<u>3.0</u>
6			<u>100%</u>	<u>3</u>							<u>4.75</u>
7	<u>5.0</u>			<u>5</u>		<u>SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY</u>	<u>GREY</u>	<u>MEDIUM DENSE</u>	<u>WET</u>		
8		<u>S-4</u>	<u>2.0</u>	<u>5</u>					<u>WATER AT 7.0</u>		<u>7.0</u>
9	<u>7.0</u>		<u>100%</u>	<u>5</u>							
10						<u>END OF BORING = 7.0</u>					

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CARLES CHISUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 32 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 DDT STORAGE AREA RT/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 33  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>9-1-92</u>	<u>7.0</u>	<u>SOINY 85-90°F</u>	<u>7.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS#</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									(Ft. & %)
1		<u>3-1</u>									
		<u>A-NS</u>									
2		<u>S-2</u>	<u>1.8</u>	<u>6</u>							
3			<u>90%</u>	<u>6</u>							
4		<u>S-3</u>	<u>2.0</u>	<u>6</u>							
5			<u>100%</u>	<u>8</u>							
6		<u>S-4</u>	<u>2.0</u>	<u>7</u>							
7			<u>100%</u>	<u>8</u>							
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHSUM BORING NO.: SB 33 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 DDT area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 34  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # <u>19</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-10-92</u>	<u>9'</u>	<u>Sunny / warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL / ROCK	Sample ID / Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT	Lab. Class.	H <sub>2</sub> O PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
				Blows Per 0.5'	Pen. Rate		RQD (Ft. & %)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
		<u>S1</u>				<u>1.3</u>	<u>SILT w/ some sand</u>	<u>gray to brown</u>	<u>Loose</u>	<u>Damp Root material</u>		
<u>1</u>		<u>A-N</u>	<u>1.4 / 2.0</u>	<u>4</u>			<u>SAND fine grained w/ trace silt</u>	<u>dk. brown to light brown</u>	<u>medium dense to loose</u>	<u>Damp</u>		
<u>2</u>			<u>70%</u>	<u>4</u>		<u>1.3</u>						
<u>3</u>			<u>1.4 / 2.0</u>	<u>3</u>			<u>SAND fine grained</u>	<u>brown to light brown</u>	<u>medium dense</u>	<u>Moist</u>		
<u>4</u>			<u>70%</u>	<u>10</u>		<u>1.4</u>						
<u>5</u>			<u>1.6 / 2.0</u>	<u>6</u>			<u>light gray to yellow brown</u>	<u>medium dense</u>	<u>Moist</u>			
<u>6</u>		<u>S4</u>	<u>80%</u>	<u>7</u>		<u>1.4</u>						
<u>7</u>			<u>1.6 / 2.0</u>	<u>14</u>			<u>light brown</u>	<u>dense</u>	<u>Wet orange striations</u>			
<u>8</u>			<u>80%</u>	<u>14</u>		<u>1.4</u>						
<u>9</u>				<u>18</u>			<u>END of Boring</u>					
<u>10</u>				<u>19</u>								<u>water 8' to 8 1/2'</u>

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: John E. Zimmerman, Jr.  
 BORING NO.: DDT SB# 34 SHEET 1 OF 1

**D.5**  
**Grid PCB Grid**

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# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB #1  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>9-1-92</u>	<u>9'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
TAIL	<u>30"</u>								
PICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HMW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>				<u>1.1</u>	<u>SILT w/ some sand</u>	<u>Gray to yellow</u>	<u>Loose</u>	<u>Damp Root material</u>		
2		<u>A-N</u>	<u>1 1/2 / 20</u>	<u>13</u>			<u>SAND fine grained w/ trace silt</u>	<u>Yellowish Brown</u>	<u>medium dense</u>	<u>moist</u>		
3			<u>60%</u>	<u>7</u>			<u>SAND fine grained</u>			<u>3'</u>		
4		<u>S3</u>	<u>1 1/2 / 20</u>	<u>5</u>		<u>1.0</u>		<u>light Brown to Brown</u>	<u>medium dense</u>	<u>(laminations) top</u>		
5			<u>60%</u>	<u>9</u>				<u>light Brown</u>		<u>moist (orange streaks) bottom</u>		
6		<u>S4</u>	<u>1 1/3 / 20</u>	<u>3</u>		<u>1.1</u>		<u>Brown to Brown</u>	<u>medium dense</u>	<u>(orange streaks) top</u>		
7			<u>65%</u>	<u>12</u>				<u>light Brown</u>		<u>Moist</u>		
8		<u>S4</u>	<u>1 1/4 / 20</u>	<u>5</u>		<u>1.2</u>		<u>Brown</u>	<u>medium dense</u>			
9			<u>70%</u>	<u>6</u>						<u>Wet</u>		<u>9'</u>
10							<u>END of Boring</u>					<u>Water 9'</u>

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: TAVY Mize

BAKER REP.: J.E. Zimmerman, JR  
 BORING NO.: SB #1 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 6 Lot 203 PCB area R/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>8-31-92</u>	<u>11'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 11' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MWD PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)		RQD (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1 A-N</u>				<u>1.0</u>	<u>SILT w/ some sand</u>	<u>Gray</u>	<u>Loose</u>	<u>Damp Root/Plant material</u>		
2		<u>S2</u>	<u>1.5/20</u>	<u>8</u>			<u>SAND fine grained w/ trace silt</u>	<u>dk gray</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>75%</u>	<u>9</u>							<u>3'</u>	
4		<u>S3</u>	<u>1.6/20</u>	<u>4</u>		<u>1.0</u>	<u>SAND fine grained</u>	<u>Brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
5			<u>80%</u>	<u>14</u>							<u>5'</u>	
6		<u>S4</u>	<u>1.9/20</u>	<u>7</u>			<u>SAND fine grained w/ trace clay</u>	<u>lite gray to lite brown</u>	<u>medium dense</u>	<u>Moist (orange streaks) clay is mottled</u>		
7			<u>50%</u>	<u>4</u>		<u>1.0</u>					<u>7'</u>	
8		<u>S5</u>	<u>1.9/20</u>	<u>4</u>			<u>SAND fine grained</u>	<u>Brown to lite gray</u>	<u>medium dense</u>	<u>Moist (orange streaks)</u>		
9			<u>50%</u>	<u>8</u>								
10		<u>S6</u>	<u>1.8/20</u>	<u>4</u>		<u>1.0</u>		<u>Brown</u>	<u>medium dense</u>	<u>Wet (orange streaks)</u>		<u>Water 10 to 12'</u>

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: SB# 2 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Site 6

Baker Environmental, Inc.

PROJECT: Lot 203 PCB area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 2

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11							END of Boring					11'
2												
3												
4												
5												
6												
7												
8												
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: SB# 2 SHEET 2 OF 2

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area RIF/S Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 3  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-2-92</u>	<u>9'</u>	<u>Sunny (warm)</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	MNU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
		<u>S1</u>				<u>1.3</u>	<u>SILT w/ some sand</u>	<u>dk gray</u>	<u>Loose</u>	<u>Damp Root material</u>		
1		<u>A-N</u>										
2		<u>S2</u>	<u>1.0 / 2.0</u>	<u>4</u>		<u>11.4</u>	<u>SAND fine grained w/ trace silt</u>	<u>dk gray to yellow/ brown to brown</u>	<u>medium dense</u>	<u>moist</u>		
3			<u>50%</u>	<u>17</u>			<u>SAND fine grained</u>	<u>yellow/ brown</u>	<u>medium dense</u>	<u>moist</u>	<u>3'</u>	
4		<u>S3</u>	<u>1.1 / 2.0</u>	<u>2</u>		<u>13.1</u>		<u>yellow/ brown</u>	<u>medium dense</u>	<u>moist</u>		
5			<u>55%</u>	<u>10</u>								
6		<u>S4</u>	<u>1.2 / 2.0</u>	<u>2</u>		<u>9.3</u>		<u>Lite Brown</u>	<u>medium dense</u>	<u>moist</u>		
7			<u>60%</u>	<u>9</u>								
8		<u>S5</u>	<u>1.7 / 2.0</u>	<u>7</u>		<u>7.2</u>		<u>Brown</u>	<u>medium dense</u>	<u>wet</u>		<u>water 8 to 8 1/2</u>
9			<u>85%</u>	<u>1</u>								
10							<u>END of Boring 9'</u>					

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: SB # 3 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: Lot 203 PCB area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 4  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-31-92</u>	<u>9'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	H <sub>2</sub> O PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1 A-N</u>				<u>.8</u>	<u>SILT w/ some sand</u>	<u>gray to buff</u>	<u>Loose</u>	<u>Damp Root material</u>		
2		<u>S2</u>	<u>1 1/2 / 20</u>	<u>7</u>		<u>.8</u>	<u>SAND fine grained w/ trace silt</u>	<u>Light Gray</u>	<u>medium dense</u>	<u>MOIST</u>		
3			<u>80%</u>	<u>5</u>								<u>3'</u>
4		<u>S3</u>	<u>1 1/2 / 20</u>	<u>5</u>		<u>.9</u>	<u>SAND fine grained</u>	<u>Brown to dk Brown</u>	<u>Loose to medium dense</u>	<u>MOIST</u>		
5			<u>60%</u>	<u>3</u>								
6		<u>S4</u>	<u>1 1/4 / 20</u>	<u>3</u>		<u>.9</u>		<u>dk Brown</u>	<u>Loose to medium dense</u>	<u>MOIST</u>		
7			<u>70%</u>	<u>5</u>								
8			<u>1 1/2 / 20</u>	<u>3</u>		<u>.9</u>		<u>Brown</u>	<u>medium dense</u>	<u>Wet</u>		
9			<u>80%</u>	<u>5</u>								<u>9'</u>
10							<u>END of Boring 9'</u>					<u>Water 8 1/2' + 9'</u>

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: SB # 4 SHEET 1 OF 1

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 5  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-1-92</u>	<u>9'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
WALL	<u>30"</u>								
TICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HNA PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1 A-N				1.0	SILT w/some sand	Gray	Loose	Damp Root material	
2		S2	1.5/20	100		1.0	SAND fine grained w/trace silt	Brown to yellow Brown	medium dense	Moist	
3			75%	6			SAND fine grained	Brown to light Brown to Gray	medium dense	Moist (Laminations yellow/orange)	
4		S3	1.8/20	24		1.0		Gray to light gray to dk. gray	Loose	Moist	
5			90%	6				DE Brown to Brown to light Brown	medium dense	Wet	
6		S4	1.4/20	34		1.0					
7			70%	4							
8		S5	1.4/20	34		1.1					
9			70%	8							
10							END of Boring 9'				Water 8 to 8 1/2

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Tavvy Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB # 5 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 203 PCB area R1/F5 Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 6  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-1-92</u>	<u>9'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
CL	<u>30"</u>								
BACK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.3	SILT w/ some sand	Gray to Brown	Loose	Damp Root material		
2		S2	1.5 20	10 14 17 18		1.5	SAND fine grained w/ trace silt	Brown to lite Brown	medium dense	moist		
3			75%									
4		S3	1.4 2.0	5 10 13 13		1.5	SAND fine grained	dk Brown to lite Brown	medium dense	moist (laminations)		
5			70%									
6		S4	1.2 2.0	7 11 15 16		1.5		lite Brown	medium dense	moist		
7			60%									
8		S5	1.5 2.0	6 5 9		1.6		Brown to lite Brown	medium dense	wet		
9			75%	10								
10							END of boring 9'					Wat 9'

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: TERRY Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB # 6 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-2-92</u>	<u>11'</u>	<u>Sunny / warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 11' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Moist. PID (ppm)	Color	Hardness		
1		<u>S1</u> <u>A-W</u>				<u>SILT w/ some sand</u>	<u>dk gray to brown</u>	<u>Loose</u>	<u>Damp Root/Plant material &amp; bark</u>		
2		<u>S2</u>	<u>1 1/2</u> <u>20</u>	<u>8</u> <u>17</u> <u>12</u>		<u>SAND fine grained</u> <u>w/ trace silt</u>	<u>Lite Brown to</u> <u>Brown</u>	<u>medium dense</u>	<u>moist</u> ( <u>orange streaks top</u> )		
3			<u>60%</u>	<u>13</u>	<u>6.7</u>	<u>SAND fine grained</u>	<u>gray/yellow to</u> <u>Brown to</u>	<u>medium dense</u>			<u>3'</u>
4		<u>S3</u>	<u>3</u> <u>2.0</u>	<u>3</u> <u>14</u>			<u>Lite gray to</u> <u>dk. brown</u>	<u>medium dense</u>	<u>moist</u>		
5			<u>40%</u>	<u>10</u>	<u>8.5</u>						
6		<u>S4</u>	<u>1.1</u> <u>2.0</u>	<u>2</u> <u>11</u> <u>15</u>			<u>DK</u> <u>Brown</u>	<u>medium dense</u>	<u>moist</u>		
7			<u>55%</u>								
8		<u>S5</u>	<u>1.8</u> <u>2.0</u>	<u>8</u> <u>12</u> <u>16</u>			<u>DK</u> <u>Brown</u>	<u>medium dense</u>	<u>moist</u>		
9			<u>90%</u>	<u>14</u>	<u>15.2</u>				<u>Wet (bottom)</u>		
10		<u>S6</u>	<u>1.8</u> <u>2.0</u>	<u>10</u> <u>12</u> <u>10</u> <u>6</u>			<u>DK</u> <u>Brown to</u> <u>Brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>Water 10 ft 10 1/2</u>

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: SB# 7 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203 PCB area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HWU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1							END of Boring 11"	dk brown to brown	medium dense	wet		11'
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB# 7 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>9-1-92</u>	<u>9'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
WALL	<u>30"</u>								
WICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Borehole grouted to surface

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate	Moist. PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		S1 A-W				SILT w/ some sand	Dk Gray	Loose	Damp Root material		
2		S2	1.6 2.0	3 10		SAND fine grained w/ trace silt	Brown to Dk Brown	medium dense	Moist (laminations) bottom 3'		
3			80%	12							
4		S3	1.5 2.0	2 5		SAND fine grained	Dk Brown	medium dense	Moist		
5			75%	6							
6		S4	1.7 2.0	2 6			Dk Brown	medium dense	Moist		
7			85%	6							
8		S5	1.5 2.0	4 7			Brown to lite Brown	medium dense	Wet		
9			75%	6							
10						END of Boring 9'					Water 8 to 8 1/2

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB # 8 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 9  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-1-92</u>	<u>7'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL / ROCK	Sample ID / Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	ANAL. PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.4	SILT w/ some sand	light gray to buff	Loose	Damp Root material		
2		S2	1 1/2 / 20	4			SAND fine grained w/ trace silt	Brown to DK Brown	medium dense	Moist (Laminations)		
3			60%	7			SAND fine grained	DK Brown	Loose	Moist		
4		S3	1 1/6 / 20	2				DK Brown	Loose	Moist		
5			80%	4								
6		S4	1 1/8 / 20	3				DK Brown to Brown	Loose	Wet		
7			90%	5		1.6						9' water 7'
8							END of boring 9'					
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: SB # 9 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area R/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 10

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-31-92</u>	<u>9'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL / ROCK	Sample ID / Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		HWu PID (ppm)	Color	Hardness		
1		S1 A-W		11		SILT w/ some sand	gray	Loose	Damp Root Plant material		
2		S2	1.5 / 2.0	10		SAND fine grained w/ trace silt	lite brown	medium dense	Moist		
3			75% / 1.3	7							3'
4		S3	1.3 / 2.0	5		SAND fine grained	lite gray	medium dense	Moist		
5			65% / 1.1	10							
6		S4	1.1 / 2.0	4			lite gray to dk brown	medium dense	Moist		
7			55% / 1.4	00					laminations (lite brown)		
8		S5	1.4 / 2.0	4			DK Brown to lite gray	medium dense	Wet		
9			70%	7							Water 8 to 8 1/2'
10						END of Boring 9'					9'

DRILLING CO.: Hardin Huber, Inc  
DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
BORING NO.: SB# 10 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 11  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-1-92</u>	<u>9'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							RQD (Ft. & %)	Pen. Rate	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color		
1		S1 A-N				1.2	SILT w/ some sand	Brown to Blue	Loose	Damp		
2		S2	1.4/20	9		1.3	SAND fine grained w/ trace silt	Brown to DK. Brown to light Brown	medium dense	moist (laminations)		
3			70%	9			SAND fine grained					
4		S3	1.6/20	4		1.2		DK. Brown	medium dense	moist		
5			80%	12								
6		S4	1.5/20	8		1.2		DK. Brown	medium dense	moist		
7			75%	12								
8		S5	1.3/20	4		1.2		DK. Brown	medium dense	moist		
9			65%	8				Brown to light Brown	medium dense	Wet		9'
10				10			END of Boring 9'					Wat 8 to 8 1/2'

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB # 11 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area R1/F5 Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB # 12

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	2'		3 1/4" ID		9-1-92	9'	Sunny/Warm		
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MnO <sub>2</sub> PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1 R-N				1.1	SILT w/ some sand	Brown	Loose	Damp Root material	
2		S2	1.2 / 2.0	6 7 11		1.1	SAND fine grained w/ trace silt	lt. Brown to Brown	medium dense	Moist (laminations) orange/rust (bottom)	
3			60%	12			SAND fine grained	Brown to DK Brown	medium dense	orange/rust (top)	
4		S3	1.5 / 2.0	2 6 8 7		1.1		Brown to DK Brown	medium dense	Moist	
5			75%								
6		S4	1.4 / 2.0	3 6 8 10		1.1		Brown	medium dense	Moist	
7			70%								
8		S5	.8 / 2.0	5 8 15		1.2		Brown to DK Brown	medium dense	Wet (laminations)	Water 8 to 8 1/2
9			40%	12							
10							END of Boring				

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Tavvy Mize

BAKER REP.: J.E. Zimmerman, Jr

BORING NO.: SB # 12 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area R1/F5 Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 13  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-1-92</u>	<u>9'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
TICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon sample  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.3	Silt w/ some sand	Gray to Brown	Loose	Damp Plant material		
2		S2	<u>1.4 / 2.0</u>	<u>6 / 9</u>		1.4	SAND fine grained w/ trace silt	Brown to light Brown to Brown	medium dense	Moist (Laminations)		
3			<u>70%</u>	<u>11</u>			SAND fine grained					
4		S3	<u>1.4 / 2.0</u>	<u>3 / 6</u>		1.4		Brown	medium dense			
5			<u>70%</u>	<u>8</u>								
6		S4	<u>1.3 / 2.0</u>	<u>2 / 6</u>		1.4		Brown	medium dense			
7			<u>65%</u>	<u>8</u>								
8		S5	<u>1.0 / 2.0</u>	<u>2 / 4</u>		1.4		Brown	Loose			
9			<u>50%</u>	<u>1</u>								
10							END of Boring					

Water 7 to 7 1/2'

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: TAVY Mize

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: SB # 13 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 PCB area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 14  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-31-92</u>	<u>11'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSK</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 11' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HMM PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.0	SILT w/ some sand	Gray to buff	Loos	Damp Root material		
2		S2	1.5 2.0	5 4		1.0	SAND fine grained w/ trace silt	Brown	medium dense	moist		
3			75%	6								
4		S3	1.2 2.0	4 5		1.0	SAND fine grained	lt. Brown to Brown to Dk. Brown	medium dense	moist		
5			60%	5								
6		S4	1.0 2.0	5 8		1.0		Dk. Brown	medium dense	moist		
7			50%	8								
8		S5	1.0 2.0	2 5		1.1		Brown	medium dense	moist		
9			50%	8								
10		S6	1.6 2.0 80%	MM		1.0		Dk Brown to Brown	Loose	Wet		Note 10 to 10

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: SB# 14 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203 PCB area Site 6 R/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 14

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11							END of Boring	DK Brown 1 1/2 to Brown				11'
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: SB# 14 SHEET 2 OF 2

**D.6**  
**Grid OSA Grid**  
**Lot 203 and Site 82**

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# FIELD TEST BORING RECORD

Site 6

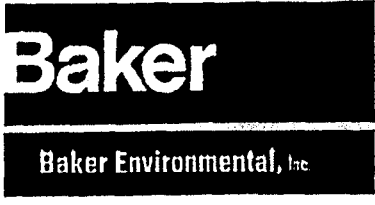
PROJECT: Lot 203, Open Storage Area RILES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SBS# 1  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>N/A</u>				<u>9-15-92</u>	<u>0.5'</u>	<u>85° sunny</u>		
LENGTH	<u>N/A</u>								
TYPE	<u>N/A</u>								
HAMMER WT.	<u>N/A</u>								
FALL	<u>N/A</u>								
STICK UP									

REMARKS: Advanced boring to 0.5' with a hand auger; collected surface sample  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S-1</u>				<u>0</u>	<u>Organic rich material and silt</u>	<u>black</u>		<u>Water @ 0.5'</u> <u>Area @ 20' south of Wallace creek in a swamp/marsh area</u>		<u>0.5'</u>
2												
3												
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: SBS1 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 203, <sup>Site 6</sup> Open Storage Area R/ES Camp Lejeune  
 S.O. NO.: 19138 BORING NO.: SB# 2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

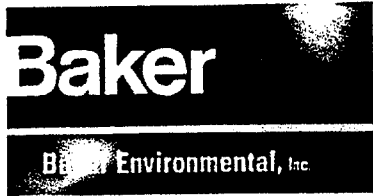
RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-13-92</u>	<u>3</u>	<u>80° Sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 3'  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>0</u>	<u>Silt and fine sand</u>	<u>black</u>		<u>dry</u>		<u>10'</u>
2		<u>A-N</u>					<u>fine sand, little silt</u>	<u>buff</u>	<u>Loose</u>	<u>moist, 1/2" band of orange color 8" from tip</u>		<u>30'</u>
		<u>S2</u>	<u>1.67</u> <u>2.0</u> <u>84%</u>	<u>33</u> <u>2</u> <u>1</u>		<u>0</u>				<u>water at 2.5'</u>		
3							<u>End of Boring at 3'</u>					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D J Martin  
 DRILLER: C. Chism BORING NO.: SBZ SHEET 1 OF 1





# FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area R/IES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 3  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 9/8"</u>		<u>3 1/4" ID</u>		<u>9-12-92</u>	<u>15</u>	<u>B3° Sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
WALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced Boring to 15' taking continuous split spoon samples to the water table. Borehole grouted to the surface. DO = D1D0

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)		Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
					Type No. (N = No Samp.)	(Ft. & %)					
1		S1 A-N	1.33 2.0	1 2							
2		S2	67%	2 3							
3											
4		S3	1.33 2.0 67%	2 3 4 5							
5											
6		S4	1.5 2.0 75%	COMMON							6'
7											7.5'
8		S5	1.08 2.0 54%	5 10 7 7							
9											
10		S6		9 10							

DRILLING CO.: Hardin Huber Inc BAKER REP.: D. J. Martin  
 DRILLER: C. Chism BORING NO.: SB3 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203, Open Storage Area R/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: 513-3

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11		S6	1.92 2.0 96%	7 5		0	medium to fine sand, little silt, trace clay	buff	Medium Dense	moist	
12		S7	1.33 2.0 67%	4 9 8 6		0.2	medium to fine, little clay fine sand little silt	lt. brn w/ orange mottling buff	Medium Dense		
13		S8	1.33 2.0 67%	4 9 8 6		0	medium to fine sand, little silt	buff	Medium Dense	moist	
14										wet	
15											15'
6							End of boring at 15'				
7											
8											
9											
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
0											

DRILLING CO.: Hardin Huber BAKER REP.: D.J. Martin  
 DRILLER: C. Chism BORING NO.: S83 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 6 Lot 203, Open Storage Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 4  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8"</u>		<u>3 1/4" ID</u>		<u>9-12-92</u>	<u>17</u>	<u>83° sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 17' taking continuous split spoon samples to the water table. Borehole grouted to the surface. DO = D1D0

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
					RQD (Ft. & %)	Pen. Rate						
1		<u>S1</u>	<u>NA</u>	<u>4</u>		<u>0</u>	<u>fine sand and silt, trace organic particles (roots)</u>	<u>light gray brown</u>	<u>loose</u>	<u>dry</u>		
2		<u>S2</u>	<u>1.33 / 2.10</u>	<u>5</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>buff</u>	<u>loose</u>	<u>dry</u>		<u>17'</u>
3			<u>66%</u>	<u>6</u>			<u>silt and fine sand</u>	<u>light brown</u>	<u>stiff</u>	<u>damp non plastic</u>		
4		<u>S3</u>	<u>0.92 / 2.10</u>	<u>7</u>		<u>0</u>	<u>DO.</u>	<u>lt. gray with brown mottling</u>		<u>non plastic</u>		
5			<u>45%</u>	<u>7</u>								
6		<u>S4</u>	<u>1.58 / 2.10</u>	<u>7</u>		<u>0</u>	<u>fine sand, some silt</u>	<u>light gray with brown mottling</u>	<u>medium dense</u>	<u>damp -</u>		
7			<u>79%</u>	<u>11</u>								
8		<u>S5</u>	<u>1.83 / 2.10</u>	<u>4</u>		<u>0</u>	<u>DO.</u>	<u>light brown</u>		<u>damp - also fine sand in casting lt. gray</u>		
9			<u>91%</u>	<u>18</u>								
10		<u>S6</u>		<u>6</u>			<u>fine sand, little silt</u>	<u>lt. gray to lt brown</u>	<u>medium dense</u>	<u>damp</u>		

DRILLING CO.: Hardin Huber Inc BAKER REP.: D. J. Martin  
 DRILLER: C. Chism BORING NO.: \_\_\_\_\_ SB4 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203, Open Storage Area, RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB 4

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S6	$\frac{4.5}{2.0}$ 75%	8 10		0	fine sand, little silt	light brown	medium dense	damp		
2		S7	$\frac{1167}{2.0}$ 83%	9 12 15 16		0	Do.	light gray		damp		
3										moist		
4		S8	$\frac{1125}{2.0}$ 62%	9 12 18 16			medium to fine sand, little silt	light gray to light brown		moist	Water at 15'	
5							Coarse to fine sand, trace silt	lt. gray	100 sc	wet - color also orange mottled		
6		S9	$\frac{1125}{2.0}$ 62%	7 9 9 10			Clay, little coarse to fine sand Coarse to fine sand, trace silt Clay some fine sand	lt. gray light gray light gray	20 sc 100 sc stiff	color also orange mottled		17'
7							End of boring at 17'					
8												
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber  
 DRILLER: L. Chism

BAKER REP.: D.J. Martin  
 BORING NO.: SB 4 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area, R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 5  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-11-92</u>	<u>7.0</u>	<u>Partly cloudy 88°</u>	—	—
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				RQD (FL & %)								
1		<u>S1</u>				<u>0</u>	<u>fine sand and silt</u>	<u>lt. gray brn</u>		<u>dry, little root particulate</u>		
2		<u>S2</u>	<u>1.42 / 2.0</u>	<u>3</u>		<u>0</u>	<u>fine sand little silt</u>	<u>lt. yellow brown</u>	<u>loose</u>	<u>dry to damp, slight orange mottling in color</u>		
3			<u>7.9 / 16</u>	<u>5</u>								
4		<u>S3</u>	<u>1.67 / 2.0</u>	<u>6</u>		<u>0</u>	<u>fine sand little silt</u>	<u>buff</u>	<u>loose</u>	<u>damp to moist</u>		
5			<u>8.9 / 16</u>	<u>5</u>								
6		<u>S4</u>	<u>1.67 / 2.0</u>	<u>5</u>			<u>fine sand, little silt</u>	<u>buff to lt. brn</u>	<u>loose</u>	<u>moist water at 5.5'</u>		
7			<u>8.9 / 16</u>	<u>6</u>						<u>wet</u>		<u>7'</u>
8							<u>End of Boring at 7'</u>					
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D J Martin  
 DRILLER: Chad Chisum BORING NO.: SB 5 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 6  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>NIA</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	<u>NIA</u>				<u>9-10-92</u>	<u>1.5'</u>	<u>Sunny 90°</u>		
TYPE	<u>NIA</u>								
HAMMER WT.	<u>NIA</u>								
FALL	<u>NIA</u>								
STICK UP									

REMARKS: Advanced hand auger to 1.5' taking samples from 6 inches to 18 inches

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>A-N</u>									
		<u>Sr</u>				<u>loam and silt</u>	<u>black</u>		<u>very moist</u>		<u>1'</u>
		<u>Se</u>				<u>loam and silt, some fine sand</u>	<u>black</u>		<u>wet</u>		<u>1.5'</u>
2						<u>End of boring at 1.5'</u>			<u>Water at 1.5 ft</u>		
3											
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber Inc  
 DRILLER: Chad Chism

BAKER REP.: D. J. Martin  
 BORING NO.: SB6 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>NIA</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>NIA</u>				<u>9-14-92</u>	<u>2.5'</u>	<u>85 Sunny</u>		
LENGTH	<u>NIA</u>								
TYPE	<u>NIA</u>								
HAMMER WT.	<u>NIA</u>								
FALL	<u>NIA</u>								
STICK UP									

REMARKS: Advanced boring to 2.5' with a hand auger  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)							Pen. Rate
1						0.1 fine sand and silt, little organic rich material	dark grey		dry		
						0.3					
						0.2 fine sand, some silt	med. grey to buff		moist		
2						0.5			wet	water @ 2.25'	
3					End of boring at 2.5'						
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: \_\_\_\_\_  
 DRILLER: \_\_\_\_\_

BAKER REP.: D.J. Martin  
 BORING NO.: SB 7 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobil B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-13-92</u>	<u>15</u>	<u>80° clear</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 15' taking continuous split spoon samples  
Borehole grouted to surface. DO = D1D0

DRILL RECORD						VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
		Type - No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate					
1		S1 AN				silt, some fine sand	lt. gray brown		dry, roots present	
2		S2	<u>1.23</u> <u>2.0</u> <u>62%</u>	<u>3</u> <u>4</u> <u>4</u>		fine sand and silt silt and fine sand	lt. brown	<u>loose</u> <u>medium</u> <u>stiff</u>	<u>damp</u>  <u>non plastic</u>	<u>2'</u>
3		S3	<u>1.67</u> <u>2.0</u> <u>84%</u>	<u>6</u> <u>7</u> <u>6</u> <u>7</u>		fine sand and silt	buff	<u>medium</u> <u>dense</u>	<u>damp</u>	<u>4'</u>
4		S4	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>6</u> <u>8</u> <u>7</u> <u>5</u>						
5		S5	<u>1.67</u> <u>2.0</u> <u>89%</u>	<u>3</u> <u>3</u> <u>3</u> <u>4</u>		organic silt and fine sand	black	<u>loose</u> <u>medium</u> <u>stiff</u>	<u>damp</u>	<u>8'</u>
6		S6		<u>3</u> <u>5</u>						

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D J Martin  
 DRILLER: C. Chism BORING NO.: SB 8 SHEET 1 OF 2



## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203, Open Storage Area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SBB

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11		S6	1.67 2.0 89%	4 3		0.6	organic silt, some fine sand	black	stiff	damp		
12		S7	1.67 2.0 84%	8 10 14 14		0	fine sand, some silt	light brown to buff	medium dense	damp		115'
14		S8	1.17 2.0 59%	8 10 14 16		0			medium dense	moist water @ 14' wet		15'
15							End of Boring at 15'					
6												
7												
8												
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber  
 DRILLER: C. Chism

BAKER REP.: D.J. Martin  
 BORING NO.: SBB SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area Site 6 R/ES Camp Lejeune  
S.O. NO.: 19133 BORING NO.: SB # 9  
COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-13-92</u>	<u>15</u>	<u>80° sunny</u>	<u>/</u>	<u>/</u>
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 15' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S1</u> <u>A-N</u>				<u>0</u>	<u>fine sand and silt</u>	<u>lt. gray</u>		<u>dry trace root particulates</u>	
2		<u>S2</u>	<u>1.33</u> <u>2.0</u> <u>67%</u>	<u>3</u> <u>4</u> <u>5</u>		<u>0</u>	<u>fine sand little silt</u> <u>fine sand and silt, trace clay</u>	<u>buff</u> <u>lt. brown</u>	<u>loose</u>	<u>dry</u>	<u>3'</u>
3		<u>S3</u>	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>6</u> <u>5</u> <u>4</u>		<u>0</u>	<u>Silt, little clay, trace fine sand</u>	<u>lt. brn to</u> <u>lt. yellow brown</u>	<u>stiff</u>	<u>damp, nonplastic</u>	
4		<u>S4</u>	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>8</u> <u>7</u> <u>6</u>		<u>0</u>	<u>Silt, some fine sand, little clay</u>	<u>lt. yellow brown</u>	<u>stiff</u>	<u>damp nonplastic</u>	
5		<u>S5</u>	<u>1.67</u> <u>2.0</u> <u>84%</u>	<u>5</u> <u>4</u> <u>3</u>		<u>0</u>	<u>fine sand and silt</u> <u>Clay and silt, trace fine sand</u>	<u>lt. brn</u> <u>mottled light brown gray orange</u>	<u>loose</u> <u>medium stiff</u>	<u>damp</u>	<u>1'</u> <u>26'</u>
6		<u>S6</u>		<u>3</u> <u>4</u>							

DRILLING CO.: Hardin Huber, Inc.  
DRILLER: Chad Chism

BAKER REP.: D.W. Martin  
BORING NO.: SB 9 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203, Open Storage Area R/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB9

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type- No. (N = No Samp.)	(Ft. & %)	ROD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S6	1.17 2.8 5.9%	5 6		0	Clay and silt, trace fine sand	mottled brown gray orange	stiff	damp		
2		S7	1.83 2.0 92%	2 3 4		0	Clay, some silt, trace fine sand		medium stiff	damp		
3		S8	2.0 2.0 100%	2 2 4		0	Organic silt and peat, little fine sand	black brown	soft	moist, clay & organic silt separated by 3/4" fine sand lenses wet, slight organic odor water		15'
4							End of boring at 15'					
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

DRILLING CO.: Hardin Huber Inc  
 DRILLER: Clad Clisum

BAKER REP.: D.J. Martin  
 BORING NO.: SB9 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area P/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV-Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8"</u>		<u>3/4" ID</u>		<u>9-12-92</u>	<u>15</u>	<u>83° sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 15' taking continuous split-spoon samples to the water table. Borehole grouted to surface. DO = D100

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL / ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>	<u>NA</u>	<u>NA</u>			<u>fine sand and silt, trace root particulates</u>	<u>lt. grey brown</u>	<u>Loose</u>	<u>dry</u>		
2		<u>S2</u>	<u>1.92 / 2.0</u>	<u>4</u>	<u>0.9</u>		<u>DO. except, little silt</u>	<u>lt brown</u>	<u>Loose</u>	<u>damp</u>		<u>25'</u>
3		<u>S3</u>	<u>0.6%</u>	<u>3</u>			<u>silt and fine sand</u>	<u>lt. brown</u>	<u>Loose</u>	<u>damp</u>		<u>31'</u>
4		<u>S3</u>	<u>1.42 / 2.0</u>	<u>6</u>	<u>0.3</u>		<u>fine sand, little silt</u>	<u>buff</u>				
5		<u>S4</u>	<u>1.25 / 2.0</u>	<u>8</u>	<u>0.9</u>							
6		<u>S4</u>	<u>1.25 / 2.0</u>	<u>8</u>	<u>0.9</u>							
7		<u>S4</u>	<u>1.25 / 2.0</u>	<u>8</u>	<u>0.9</u>							
8		<u>S5</u>	<u>1.67 / 2.0</u>	<u>6</u>	<u>1.4</u>		<u>Silt and fine sand, trace clay</u>		<u>Loose</u>	<u>damp, nonplastic</u>		<u>8'</u>
9		<u>S6</u>	<u>8.9%</u>	<u>3</u>			<u>silt and clay, trace fine sand</u>			<u>mostly plastic</u>		
10		<u>S6</u>		<u>4</u>								

DRILLING CO.: Hardin Huber Inc  
 DRILLER: C. Chism

BAKER REP.: D. J. Martin  
 BORING NO.: SB10 SHEET 1 OF 2

Baker Environmental, Inc.

PROJECT: Lot 203, Open Storage Area RUES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB10

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S6	1.17 2.0 59%	3 5		0.2	Silt and clay, trace fine sand in partings	Lt. brown	medium stiff	damp mostly plastic		
2		S7	1.75 2.0 88%	9 6 10 12		0.4	fine sand some silt	very light brown buff	medium dense	damp, moist		
3		S8	1.33 2.0 67%	8 10 9 11		NA	fine sand, little silt	Light gray	medium dense	wet		
4												15'
5							End of boring at 15'					
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber Inc.  
 DRILLER: C. Chism

BAKER REP.: D. J. Martin  
 BORING NO.: SB10 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: lot 203 Open Storage Area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 11  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-1-92</u>	<u>7.0'</u>	<u>BB partly cloudy</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (FL & %)	Pen. Rate						
1		<u>S1</u> <u>A-N</u>				<u>fine sand and silt</u>	<u>lt. gray brn</u>	<u>loose</u>	<u>dry, root particulates present</u>		
2		<u>S2</u>	<u>1.42</u> <u>2.0</u>	<u>2</u> <u>3</u> <u>4</u>		<u>fine sand, little silt</u>	<u>lt. yellow brown</u>				
3			<u>71%</u>			<u>TOP 2" fine sand little silt</u>		<u>loose</u>			
4		<u>S3</u>	<u>1.83</u> <u>2.0</u>	<u>3</u> <u>4</u> <u>5</u>		<u>Bottom 20" fine sand and silt trace clay</u>	<u>lt. brn</u>				
5			<u>92%</u>						<u>moist water at 5.5'</u>		
6		<u>S4</u>	<u>1.33</u> <u>2.0</u>	<u>5</u> <u>4</u> <u>11</u> <u>13</u>	<u>NA</u>	<u>top 9" silt, some clay little fine sand in partings</u> <u>Bottom 5" fine sand, little silt</u>	<u>mottled orange gray</u> <u>medium gray</u>	<u>medium dense</u>	<u>wet</u>		<u>6.4'</u> <u>7'</u>
7						<u>End of Boring at 7.0'</u>					
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D.J. Martin  
 DRILLER: Chad Chisma BORING NO.: SB11 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 12  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8"</u>		<u>3 1/4" ID</u>		<u>9-9-92</u>	<u>19</u>	<u>Partly Sunny 87°</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 19.0' taking continuous split spoon samples. Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						
1		<u>S1</u> <u>A-A</u>				<u>Organic silt, little sand</u>	<u>black</u>		<u>little organics, (i.e. roots)</u> <u>dry</u>		
2		<u>S2</u>	<u>1.08 / 2.0</u>	<u>1</u>		<u>Silt and fine sand</u>	<u>light yellow brown</u>	<u>very loose</u>	<u>dry</u>		
3		<u>S3</u>	<u>54%</u>	<u>2</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>loose</u>	<u>dry</u>		
4		<u>S4</u>	<u>1.0 / 2.0</u>	<u>2</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>loose</u>	<u>dry</u>		
5		<u>S5</u>	<u>50%</u>	<u>5</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>dry</u>		
6		<u>S6</u>	<u>1.42 / 2.0</u>	<u>6</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>dry</u>		
7		<u>S7</u>	<u>71%</u>	<u>10</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>dry</u>		
8		<u>S8</u>	<u>1.58 / 2.0</u>	<u>8</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>dry</u>		
9		<u>S9</u>	<u>79%</u>	<u>10</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>dry</u>		
10		<u>S10</u>		<u>12</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>dry</u>		

DRILLING CO.: Hardin Huber Inc  
 DRILLER: Chad Chism

BAKER REP.: D. J. Martin  
 BORING NO.: SB12

SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203, Open Storage Area, RI/PS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB 12

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)		RQD (FL & %)	Pen. Rate	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11		S6	$\frac{1.5}{2.0}$ 75%	8		1.9	fine sand, little silt	light brown	medium dense	dry, damp at tip, color also orange mottled	
12		S7	$\frac{1.25}{2.0}$ 63%	20 8 15 10		1.8		light brown w/ orange mottling	medium dense	damp, top 4" orange brown	
13		S8	$\frac{1.58}{2.0}$ 79%	6 7 5 5		1.5	top 1" fine sand & silt silt & clay, little f. sand	light gray w/ orange mottling	medium dense	damp	13'
14								clay and silt, some fine sand	light gray	loose	damp
15		S9	$\frac{1.82}{2.0}$ 92%	2 3 4 4		1.3					
17		S10	$\frac{1.5}{2.0}$ 75%	8 7 8 15		NA	silt & fine sand, some clay	light gray		Water at 17.5'	17'
18									medium dense	Wet	
19							End of boring at 19 ft.				19'
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
0											

DRILLING CO.: Hardin Huber Inc  
 DRILLER: Chad Chism

BAKER REP.: D. J. Martin  
 BORING NO.: SB-12 SHEET 2 OF 2



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 13  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-13-92</u>	<u>25</u>	<u>80 Sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 25' taking continuous split spoon samples  
Borehole grouted to surface DO = DDD

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		S1				<u>Silt and fine sand</u>	<u>medium gray</u>		<u>dry</u>		
2		S2	<u>1167 2.0 84%</u>	<u>3 4 4</u>		<u>fine sand, little silt</u>	<u>light yellow brown</u>	<u>loose</u>	<u>dry</u>		
3											
4		S3	<u>142 2.0 71%</u>	<u>4 3 3</u>							
5					<u>0.5</u>	<u>Silt and fine sand</u>	<u>light brown</u>		<u>damp, non plastic</u>		<u>4.5'</u>
6		S4	<u>133 2.0 67%</u>	<u>5 4 3</u>				<u>medium stiff</u>			
7											
8		S5	<u>135 2.0 88%</u>	<u>5 7 8</u>		<u>DO, except trace clay</u>		<u>stiff</u>	<u>damp non plastic</u>		
9											
10		S6		<u>5 4</u>							

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: C. Chism

BAKER REP.: D J Martin  
 BORING NO.: SB13 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203, Open Storage Area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB 073

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11		S6	$\frac{1.25}{2.0}$ 88%	5 6		0	silt and fine sand	light brown	stiff	damp non plastic		11'
12		S7	$\frac{1.42}{2.0}$ 71%	7 11 10 10		0	fine sand, some silt	buff	medium dense	damp		
13							fine sand, little silt	buff		damp		
14		S8	$\frac{1.25}{2.0}$ 63%	4 8 10 12		0						
15												
16		S9	$\frac{1.67}{2.0}$ 84%	7 12 13 13		0.2						
17												
18		S10	$\frac{1.25}{2.0}$ 63%	3 9 7 10		0						
19												
20		S11	$\frac{1.15}{2.0}$ 75%	7 7 14 18		0						
21												
22		S12	$\frac{1.67}{2.0}$ 84%	8 10 12 15		0						
23							fine sand, some silt	buff	medium dense			
24		S13	$\frac{1.33}{2.0}$ 67%	7 14 14 16		0						
25										wet		water at 24.5' 25'
6							End of boring at 25'					
7												
8												
9												
0												

DRILLING CO.: Hardin Huber  
 DRILLER: C. Chism

BAKER REP.: D J Martin  
 BORING NO.: SB 13 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area, R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 14  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-13-92</u>	<u>7.0</u>	<u>80° Clear</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface DO = D100

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
				Blows Per 0.5'							RQD (Ft. & %)
1		<u>S1</u>				<u>fine sand and silt</u>	<u>lt. gray brown</u>		<u>dry</u>		
2		<u>A-N</u>	<u>1162/20</u>	<u>67</u>	<u>0.2</u>	<u>fine sand and silt</u>	<u>lt. brn</u>	<u>medium dense</u>	<u>dry</u>	<u>25'</u>	
3		<u>S2</u>	<u>81%</u>	<u>4</u>		<u>Silt and fine sand</u>		<u>stiff</u>	<u>dry, non plastic</u>		
4		<u>S3</u>	<u>115/20</u>	<u>45</u>	<u>0</u>						
5			<u>75%</u>	<u>5</u>							
6		<u>S4</u>	<u>1183/20</u>	<u>9</u>	<u>0.3</u>	<u>fine sand some silt</u>	<u>lt. gray with brown moisture</u>				
7			<u>91%</u>	<u>11</u>							
8		<u>S5</u>	<u>1133/20</u>	<u>10</u>	<u>0</u>	<u>DO, except little silt</u>					
9			<u>66%</u>	<u>3</u>						<u>9'</u>	
10						<u>End of Boring at 9'</u>					

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: C. Chism BORING NO.: SB 14 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area <sup>Site 6</sup> R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 15  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-83</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8"</u>		<u>3 1/4" ID</u>		<u>9-11-92</u>	<u>15</u>	<u>88° overcast</u>	—	—
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split-spoon samples;  
Borehole grouted to surface - DO = DIDo

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)							
1		<u>S1</u> <u>A-11</u>				<u>fine sand and silt</u>	<u>lt. brn gray</u>		<u>dry</u>		
2		<u>S2</u>	<u>1.17</u> <u>2.0</u> <u>59%</u>	<u>3</u> <u>2</u> <u>3</u>		<u>silt and fine sand</u>	<u>brown</u>	<u>soft</u>	<u>dry</u>		<u>2'</u>
3						<u>fine sand, little silt</u>	<u>buff</u>	<u>loose</u>			<u>3'</u>
4		<u>S3</u>	<u>1.0</u> <u>2.0</u>	<u>1</u> <u>2</u>	<u>3.8</u>	<u>fine sand, some silt</u>	<u>buff</u>	<u>very loose</u>	<u>dry</u>		<u>4'</u>
5			<u>50%</u>	<u>1</u> <u>2</u>		<u>silt and fine sand</u>	<u>lt. brown</u>	<u>soft</u>			
6		<u>S4</u>	<u>1.67</u> <u>2.0</u> <u>84%</u>	<u>5</u> <u>3</u> <u>4</u>		<u>DO.</u>	<u>lt. brown</u>	<u>medium stiff</u>	<u>damp</u>		
7						<u>silt and fine sand</u>	<u>buff</u>		<u>damp</u>		<u>7.6'</u>
8		<u>S5</u>	<u>1.75</u> <u>2.0</u> <u>89%</u>	<u>5</u> <u>6</u> <u>5</u>		<u>fine sand, little silt</u>	<u>to lt. brown</u>	<u>medium loose</u>			
9											
10		<u>S6</u>		<u>5</u> <u>7</u>							

DRILLING CO.: Hardin Huber Inc BAKER REP.: D. J. Martin  
 DRILLER: Chad Chism BORING NO.: SB15 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: lot 203, Open Storage Area, RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB15

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type - No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S6	1.5 2.0 75%	8 6		0	fine sand little silt	buff to lt. brn	medium dense	damp, color dark brown at tip	
2		S7	1.25 2.0 63%	6 8 11 12		0	fine sand some silt	medium brown	medium dense	moist	
3			1.67 2.0	6 12		NA	fine sand, little silt	buff	medium dense	moist, 3" zone of orange color at water table	
4		S8	84%	7 8			fine sand and silt	lt brn		water at 14.5	15'
5							End of Boring at 15'				
6											
7											
8											
9											
0											

DRILLING CO.: Hardin Huber  
 DRILLER: Chad Chism

BAKER REP.: D.J. Martin  
 BORING NO.: SB15 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 6 lot 203, Open Storage Area, RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 16  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-11-92</u>	<u>0 17 ft</u>	<u>88° sunny</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 17' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	DVA P/B (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>				<u>0.2</u>	<u>fine sand and silt</u>			<u>dry, root particles present</u>		
2		<u>A-N</u>	<u>1.5</u> <u>2.0</u>	<u>6</u> <u>8</u>		<u>0.2</u>	<u>fine sand, little silt</u>	<u>buff w/lt. brn. mottling</u>	<u>medium dense</u>	<u>dry</u>		
3			<u>75%</u>	<u>7</u>								
4		<u>S3</u>	<u>1.42</u> <u>2.0</u>	<u>5</u> <u>5</u>		<u>0.2</u>	<u>Top 13" fine sand, little silt</u> <u>bottom 8" fine sand and silt</u>	<u>buff</u> <u>brown</u>	<u>loose</u>	<u>dry</u> <u>non plastic</u>		
5			<u>71%</u>	<u>5</u>								
6		<u>S4</u>	<u>1.83</u> <u>2.0</u>	<u>7</u> <u>4</u> <u>5</u>		<u>0</u>	<u>Top 14" silt and fine sand</u> <u>bottom 8" fine sand, little silt</u>	<u>lt. brn to buff</u>	<u>stiff</u> <u>medium dense</u>	<u>dry</u>		<u>6.5'</u>
7			<u>82%</u>	<u>8</u>								<u>7'</u>
8		<u>S5</u>	<u>1.25</u> <u>2.0</u>	<u>8</u> <u>10</u>		<u>0</u>	<u>fine sand and silt</u> <u>fine sand, little silt</u>	<u>brown</u> <u>buff</u>	<u>medium dense</u>	<u>damp, non plastic</u>		
9			<u>63%</u>	<u>10</u>								
10		<u>S6</u>		<u>6</u> <u>7</u>		<u>0</u>						

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D.J. Martin  
 DRILLER: Chad Chism BORING NO.: SB 16 SHEET 1 OF 2

## FIELD TEST BORING RECORD

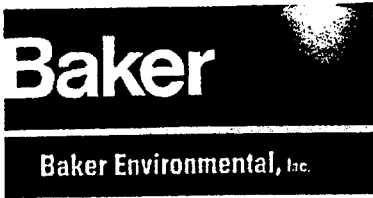
Baker Environmental, Inc.

Lot 6203 Site G  
 PROJECT: Open Storage Area RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB16

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11		S <sub>4</sub>	$\frac{1.62}{2.0}$ 84%	7 7		0	fine sand and silt	lt orange brown	medium dense	damp		11'
12		S <sub>7</sub>	$\frac{1.5}{2.0}$ 75%	4 5 7 8		0	silt and fine sand, trace clay	orange brown	stiff	damp		12.7'
13		S <sub>8</sub>	$\frac{1.83}{2.0}$ 92%	4 5 13 15		0	fine sand, little silt	buff	medium dense	damp		15'
14		S <sub>9</sub>	$\frac{1.58}{2.0}$ 79%	5 8 13 15		NA	fine sand, little silt	gray brown	medium dense	wet		17'
15							End of boring @ 17'					
16												
17												
8												
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber Inc  
 DRILLER: Chad Chism

BAKER REP.: D. J. Martin  
 BORING NO.: SB16 SHEET 2 OF 2



# FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area Site 6 RILES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 17  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8"</u>		<u>3 1/4" ID</u>		<u>9-2-92</u>	<u>17.0</u>	<u>Partly Cloudy 87°</u>	<u>—</u>	<u>—</u>
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 17' taking continuous split spoon samples. Borehole grouted to surface. DO = D1D0

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL / ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		<u>S1</u>				<u>silt and fine sand, trace organics</u>	<u>medium gray</u>		<u>dry</u>		
2		<u>A-N</u>	<u>1.25 / 2.0</u>	<u>5</u>		<u>fine sand, little silt</u>	<u>buff w/ light brown mottling</u>	<u>medium dense</u>	<u>dry light brown mottled color</u>		
3		<u>S2</u>	<u>63%</u>	<u>6</u>							
4		<u>S3</u>	<u>1.75 / 2.0</u>	<u>2</u>		<u>fine sand, little silt</u>	<u>buff to light brown</u>	<u>loose</u>	<u>top 6" dry bottom 15" damp</u>		
5			<u>80%</u>	<u>3</u>							
6		<u>S4</u>	<u>1.5 / 2.0</u>	<u>4</u>		<u>fine sand, little silt</u>	<u>light brown</u>		<u>damp color changes to buff at tip of split spoon</u>		
7			<u>75%</u>	<u>5</u>							
8		<u>S5</u>	<u>1.58 / 2.0</u>	<u>6</u>		<u>fine sand, little silt</u>	<u>buff to lt. brn</u>	<u>medium dense</u>	<u>damp; color changes from buff to light brown to buff with mottled light brown coloring</u>		
9			<u>79%</u>	<u>7</u>							
10		<u>S6</u>		<u>6</u>							

DRILLING CO.: Hardin Huber Inc BAKER REP.: D. J. Martin  
 DRILLER: Chad Chism BORING NO.: SB17 SHEET 1 OF 2



## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 6 Lot 203, Open Storage Area R/F/S Camp Lejeune  
 S.O. NO.: 19633 BORING NO.: SB 16 17

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S6	7-10	$\frac{10}{2.0}$ 50%		0	fine sand, little silt	buff	medium dense	damp		
2		S7	7-10 13-15	$\frac{12.5}{2.0}$ 63%		0	fine sand and silt	buff	medium dense	damp		
3			2-7	$\frac{1.17}{2.0}$		NA	DO.			moist		
4		S8	7-9 9-16	$\frac{59}{2.0}$ 84%		NA	DO.	lt. brn w/ orange mottling	medium dense	Water at 15'		
5		S9	4-7 7-9 9-10	$\frac{1.67}{2.0}$ 84%		NA	DO.			wet		17'
6							End of Boring at 17'					
7												
8												
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Harden Huber Inc  
 DRILLER: Chad Chism

BAKER REP.: D.J. Martin  
 BORING NO.: SB 17 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 6 Lot 203, Open Storage Area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 18  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 9/8"</u>		<u>3 1/4" ID</u>		<u>9-9-92</u>	<u>15'</u>	<u>Partly Cloudy 87°</u>	—	—
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 15' taking continuous split spoon samples. Base hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		<u>S1</u> <u>A-N</u>					<u>light gray</u>				
2		<u>S2</u>	<u>1.17</u> <u>2.0</u> <u>59%</u>	<u>3</u> <u>7</u> <u>6</u>		<u>fine grained sand, little silt</u>	<u>buff</u>	<u>medium dense</u>	<u>dry</u>		
3		<u>S3</u>	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>3</u> <u>4</u> <u>5</u>		<u>fine grained sand, little silt</u>	<u>buff</u>	<u>loose</u>	<u>damp</u>		
4		<u>S4</u>	<u>1.67</u> <u>2.0</u> <u>84%</u>	<u>3</u> <u>4</u> <u>5</u> <u>7</u>		<u>fine grained sand, some silt</u>	<u>buff to light brown</u>	<u>loose</u>	<u>damp</u>		
5		<u>S5</u>	<u>1.58</u> <u>2.0</u> <u>79%</u>	<u>7</u> <u>11</u> <u>13</u> <u>14</u>		<u>fine sand, little silt</u>	<u>mottled orange light brown</u>	<u>medium dense</u>	<u>med to damp; moist at bottom of the split spoon</u>		
6		<u>S6</u>		<u>7</u> <u>11</u>							

DRILLING CO.: Hardin Huber Inc  
 DRILLER: Chad Chism

BAKER REP.: D. J. Martin  
 BORING NO.: SB18 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203, Open Storage Area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB 18

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11		S6	1.5 75%	13 14	1.5 75%	0.1	fine sand, little silt, trace clay in stringers	light brown		moist, color changes to orange brown at tip (2")		
12		S7	1.5 75%	13 14	1.5 75%	0.4	fine sand and silt	lt. brn w/ orange mottling to buff		moist		
13		S8	1.5 75%	8 10	1.5 75%	1.5	silt, some clay, little fine sand	lt. gray orange mottled		moist water at 14'		13'
14				20 9			fine sand, some silt, trace clay in stringers	lt. brn orange mottled		wet		15'
15							End of boring at 15'					
6												
7												
8												
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber Inc  
 DRILLER: Chad Chism

BAKER REP.: D.J. Martin  
 BORING NO.: SB 18 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Open Storage Area, Site 6, RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 19  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-13-92</u>	<u>3</u>	<u>80 sunny</u>	/	/
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>				<u>0</u>	<u>fine sand and silt</u>	<u>brown</u>		<u>damp</u>		
2		<u>S2</u>	<u>1.83</u> <u>2.0</u>	<u>7</u> <u>7</u> <u>5</u> <u>6</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>buff</u>	<u>medium dense</u>	<u>moist</u> <u>wet</u>	<u>water at 2.5</u> <u>3'</u>	
3							<u>End of Boring at 3'</u>					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D.J. Martin  
 DRILLER: C. Chism BORING NO.: SB 19 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 Site 6 Open Storage Area R/ES Comp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 20  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-13-92</u>	<u>7.0'</u>	<u>80° sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
				RQD (Ft. & %)	Pen. Rate						PID (ppm)
1		S1				Silt and fine sand	gray black		dry	1'	
2		S2	<u>0.92 / 2.0</u>	<u>6</u>		fine sand and organic silt	black	medium dense	dry		
3			<u>46%</u>	<u>5</u>							
4		S3	<u>2.0 / 2.0</u>	<u>6</u>		fine sand, little silt	dark brown		moist water at 4.5'		
5			<u>100%</u>	<u>7</u>					wet		
6		S4	<u>1.12 / 2.0</u>	<u>7</u>		silt and fine sand	light gray		wet	6.6'	
7			<u>56%</u>	<u>5</u>						7'	
8						End of boring at 7ft					
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: C. Chism

BAKER REP.: D J Martin  
 BORING NO.: SB 20 SHEET 1 OF 1

## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 open storage area RIFs Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB #21  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-30-92</u>	<u>9'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 9' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
					Type No. (N = No Samp.)	RQD (Ft. & %)	Pen. Rate					
1		<u>S1</u>				<u>.8</u>	<u>SILT w/ some sand</u>	<u>DK Brown</u>	<u>Loose</u>	<u>Damp Root material</u>		
2		<u>S2</u>	<u>1.5 / 2.0</u>	<u>6</u>		<u>.9</u>	<u>SAND fine grained w/ trace silt</u>	<u>Lite Brown</u>	<u>medium dense to Loose</u>	<u>moist orange streaks</u>		
3				<u>5</u>								
4		<u>S3</u>	<u>1.6 / 2.0</u>	<u>2</u>		<u>.9</u>		<u>Lite Brown to DK Brown</u>	<u>Loose</u>	<u>moist</u>		
5			<u>80%</u>	<u>3</u>								
6			<u>1.5 / 2.0</u>	<u>2</u>			<u>SAND fine grained</u>	<u>DK Brown</u>		<u>moist</u>		
7			<u>75%</u>	<u>4</u>		<u>.9</u>			<u>Loose</u>			
8			<u>1.8 / 2.0</u>	<u>3</u>								
9			<u>90%</u>	<u>4</u>		<u>.9</u>		<u>DK Brown</u>	<u>medium dense</u>	<u>Wet</u>		
10				<u>7</u>			<u>END of Boring 9'</u>					<u>Water 8 1/2' to 9'</u>

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.F. Zimmerman, JR.  
 BORING NO.: SB#21 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

open storage area

PROJECT: Lot 203 ~~AGB area~~ R/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 22  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-31-92</u>	<u>7'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	Moist. PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>1.2</u>	<u>SILT w/ some sand</u>	<u>gray to buff</u>	<u>Loose</u>	<u>Damp Root / Plant material</u>		
2		<u>S2</u>	<u>1.3 / 2.0</u>	<u>6</u>		<u>1.2</u>	<u>SAND fine grained w/ trace silt</u>	<u>Brown</u>	<u>medium dense</u>	<u>Moist orange streaks</u>		
3			<u>65% / .9</u>	<u>6</u>								
4		<u>S3</u>	<u>2.0 / .9</u>	<u>2</u>		<u>1.2</u>	<u>SAND fine grained</u>	<u>Light gray</u>	<u>medium dense</u>	<u>Moist orange streaks</u>		
5			<u>45% / 1.6</u>	<u>5</u>								
6			<u>2.0 / 1.6</u>	<u>4</u>		<u>1.1</u>		<u>Brown to dk Brown</u>	<u>Loose</u>	<u>Wet</u>		<u>Water 6 to 6 1/2'</u>
7			<u>80%</u>	<u>4</u>			<u>END of Boring</u>					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: SB# 22 SHEET 1 OF 1  
 open storage area

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 OPEN STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 17133-50-SRN BORING NO.: SB 23  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/30/92</u>	<u>5.0</u>	<u>SUNNY 85°-90°F</u>	<u>5.0</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 5' AT TWO FOOT INTERVALS. BOREHOLE CROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type-No. (N = No Samp.)									(Ft. & %)
1	<u>0.5</u>	<u>S-1</u>									
	<u>1.0</u>	<u>A-NS</u>									
2		<u>S-2</u>	<u>14</u>		<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT. BROWN</u>	<u>MED. DENSE</u>	<u>DRY DAMP</u>			
3	<u>3.0</u>	<u>S-2</u>	<u>7</u>	<u>0</u>						<u>3.0'</u>	
		<u>S-3</u>	<u>9</u>								
4		<u>S-3</u>	<u>4</u>		<u>SAND, FINE GRAINED, TRACE SILT, SOME CLAY</u>	<u>GRAY</u>	<u>LOOSE</u>	<u>MUST</u>			
5	<u>5.0</u>	<u>S-3</u>	<u>4</u>					<u>WET, WATER AT 5.0'</u>			
6					<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>				
7											
8											
9											
10											

DRILLING CO.: HARWIN-HUBER, INC.  
 DRILLER: CARLES CITSUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB 23 SHEET 1 OF 1



## FIELD TEST BORING RECORD

Site 6

PROJECT: Lot 203 open storage area RIFs Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 24  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-30-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HWK PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>1.1</u>	<u>SILT w/ some sand</u>	<u>Gray to Buff</u>	<u>Loose</u>	<u>Damp Gravel Root/Plant material</u>		
2		<u>A-N</u>		<u>11.5</u>	<u>16</u>		<u>SAND fine grained</u>	<u>Lite Brown</u>	<u>medium dense</u>	<u>moist</u>		
3		<u>S2</u>	<u>75%</u>	<u>12</u>		<u>1.1</u>	<u>Ultracl silt</u>	<u>DK Brown</u>	<u>Loose to medium dense</u>	<u>.....</u>		<u>3'</u>
4			<u>1.6</u>	<u>4</u>		<u>1.0</u>	<u>SAND fine grained</u>	<u>DK Brown</u>	<u>Loose to medium dense</u>	<u>Wet</u>		<u>5'</u>
5			<u>80%</u>	<u>4</u>			<u>END of Boring</u>					<u>water 4 1/2'</u>
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Hubber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman Jr.  
 BORING NO.: \_\_\_\_\_ # 24 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 OPEN STORAGE AREA RE/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB25  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	2.0'		3 1/4" I.D.		8/30/12	7.0'	SUNNY 85-90°F	7.0'	TOB
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 7' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1	0.5	S-1				0	SAND, FINE GRAINED, TRACE SILT	LT BROWN GRAY	MED. DENSE	DRY DRAMP		
2	1.0	A-NS		4		0						
3		S-2	2.0	4		0	SAND, FINE GRAINED, TRACE SILT	BROWN TAN	LOOSE	MOIST		
4	3.0		100%	4		0						
5		S-3	2.0	4		0	SAND, FINE GRAINED TRACE SILT	LT BROWN	LOOSE	WET, WATER AT 7.0		
6	5.0		100%	4		0						
7		S-4	2.0	4		0	END OF BORING 7'	WT	7.0'			
8	7.0		100%	4		0						
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CITSUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB25 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Site 6 Lot 203 open storage area R/Es Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 26  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-30-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	HNA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
		Type - No. (N = No Samp.)									
1		<u>S1 A-N</u>			<u>.8</u>	<u>SILT w/ some sand</u>	<u>Gray</u>	<u>Loose</u>	<u>Damp</u>		<u>.5'</u>
2		<u>S2</u>	<u>16 / 2.0</u>	<u>6</u>	<u>.7</u>	<u>SAND fine grained w/ trace silt</u>	<u>DK Gray to lite brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>80%</u>	<u>12</u>		<u>SAND fine grained</u>	<u>Lite gray</u>	<u>medium dense</u>	<u>Wet</u>		<u>3'</u>
4			<u>16 / 2.0</u>	<u>6</u>	<u>.8</u>						
5			<u>80%</u>	<u>11</u>		<u>END of Boring</u>					<u>5'</u>
6											<u>Water 4 1/2' to 5'</u>
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E Zimmerman, Jr.  
 BORING NO.: #26 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 <sup>open storage area</sup> ~~PEB area~~ RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 27  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-31-92</u>	<u>5'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT	Lab. Class.	H.Nu. PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				Blows Per 0.5'	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u> <u>A-N</u>	<u>1.5</u>	<u>12</u>		<u>1.1</u>	<u>SILT w/ some sand</u>	<u>gray to buff</u>	<u>Loose</u>	<u>Damp Trace Gravel / <sup>plant material</sup></u>		
2		<u>S2</u>	<u>2.0</u>	<u>13</u>		<u>1.2</u>	<u>SAND fine grained w/ trace silt</u>	<u>dk gray to lite gray</u>	<u>medium dense</u>	<u>moist</u>		
3			<u>75%</u>	<u>11</u>			<u>SANDS fine grained</u>	<u>lite gray</u>			<u>3'</u>	
4			<u>1.5</u>	<u>3</u>		<u>1.3</u>		<u>lite gray</u>	<u>loose to medium dense</u>	<u>wet</u>		
5			<u>2.0</u>	<u>4</u>							<u>5'</u>	<u>water 4 1/2 to 5'</u>
5			<u>75%</u>	<u>4</u>			<u>END of Boring</u>					
5			<u>5</u>	<u>5</u>								
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: ~~PEB~~ SB# 27 SHEET 1 OF 1  
<sup>open storage area</sup>

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 OPEN STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB28  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/30/92</u>	<u>9.0</u>	<u>SUNNY 85-90°F</u>	<u>7.5</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HS4</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 9 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-9' AT TWO FOOT INTERVALS. BOREHOLE GROUDED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
					Pen. Rate	PID (ppm)						
0.5		S-1										
1.0		A-NS										
1			0.5	24			SAND, FINE GRAINED	LT. BROWN	DENSE	DRY DAMP		
2		S-2		30			TRACE SILT					
3			25%	25								
3				19				GRAY				
4			1.3	6					MED. DENSE	MOIST		4.5
4		S-3		13								4.25
5			65%	16			FILL MATERIAL, SOME SAND, TRACE SILT	LT. BROWN		DAMP MOIST		
5				4								
6			1.0	4			SAND, FINE GRAINED	GRAY	LOOSE			
6		S-4		4			TRACE SILT					
7			50%	4								
7				6								
7			2.0	4								7.5
7				4								
8			100%	5			SAND, FINE GRAINED, TRACE SILT, SOME CLAY	LT. GRAY	MED. DENSE	WATER HT		7.5
8		S-5		5								
9				6								
9				7				GRAY				9.0
9							END OF BORING					
9												
10												

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB28 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 open storage area RIFs Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#29  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-30-92</u>	<u>7'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									RQD (Ft. & %)
1		<u>S1</u>			<u>SILT w/ some sand</u>	<u>gray to buff</u>	<u>Loose</u>	<u>Damp Gravel</u>			
2		<u>A-N</u>	<u>10/20</u>	<u>6</u>	<u>SAND fine grained w/ trace silt</u>	<u>Lite gray to brown</u>	<u>Loose to medium dense</u>	<u>moist</u>			
3			<u>50%</u>	<u>5</u>	<u>SAND fine grained</u>	<u>Brown to lite brown</u>	<u>Loose</u>	<u>moist</u>			
4		<u>S3</u>	<u>1.6/2.0</u>	<u>2</u>		<u>Lite Brown</u>	<u>Loose</u>	<u>moist</u>			
5			<u>80%</u>	<u>2</u>							
6			<u>1.4/2.0</u>	<u>2</u>		<u>Lite Brown</u>	<u>Loose</u>	<u>Wet orange streaks</u>		<u>Water 6 to 6 1/2</u>	
7			<u>70%</u>	<u>5</u>	<u>END of Boring</u>						
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: T.E. Zimmerman, JR.  
 BORING NO.: open storage SB#29 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 OPEN STORAGE AREA RE/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB30  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3/4" I.D.</u>		<u>8/30/92</u>	<u>5.0</u>	<u>SUNNY 85°-90°F</u>		
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 5' AT TWO FOOT INTERVALS. BOREHOLE GRouted TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
											ROCK
1		<u>S-1</u>				<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>DK GRAY BLACK</u>		<u>DRY DAMP</u>	<u>0.5</u>	
2		<u>S-2</u>	<u>1.7</u>	<u>4</u>		<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BROWN</u>	<u>MED. DENSE</u>		<u>2.5</u>	
3		<u>S-3</u>	<u>85%</u>	<u>12</u>		<u>SAND, FINE GRAINED, LITTLE SILT</u>	<u>LT BROWN</u>	<u>MED. DENSE</u>	<u>MOST WET, WATER AT 3.5'</u>	<u>3.5</u>	
4		<u>S-3</u>	<u>1.0</u>	<u>4</u>		<u>SAND, FINE GRAINED, TRACE SILT</u>				<u>5.0</u>	
5			<u>50%</u>	<u>12</u>							
6						<u>END OF BORING AT 5.0'</u>					
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB30 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 203 open storage area R/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SR # 31  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-30-92</u>	<u>5'</u>	<u>Sunny (warm)</u>		
LENGTH	<u>21</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 5' taking continuous split spoon samples  
Bore hole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type - No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HNA PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S1</u>				<u>.7</u>	<u>SILT w/ some sand</u>	<u>Gray</u>	<u>Loose</u>	<u>Damp</u>	<u>.5'</u>
2		<u>A-W</u>	<u>1 1/2</u>	<u>5</u>			<u>SAND fine grained w/ trace silt</u>	<u>dk gray to lite gray</u>	<u>medium dense</u>	<u>moist</u>	
3		<u>S2</u>	<u>85%</u>	<u>5</u>		<u>.7</u>	<u>SAND fine grained</u>	<u>light gray</u>	<u>medium dense to loose</u>	<u>Wet</u>	<u>3'</u>
4			<u>1 1/2</u>	<u>5</u>		<u>.7</u>					
5			<u>75%</u>	<u>00</u>			<u>END of Boring 5'</u>				<u>5'</u>
6											<u>water 4 1/2 to 5'</u>
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, JR.  
 BORING NO.: open storage # 31 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

open storage area

PROJECT: Lot 203 ~~open storage area~~ R/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 32  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3/4" ID</u>		<u>8-31-92</u>	<u>7'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		<u>S1 A-N</u>				<u>SILT w/ some sand</u>	<u>gray buff</u>	<u>Loose</u>	<u>Damp</u>		<u>.5'</u>
2			<u>1.6 / 2.0</u>	<u>7</u>		<u>SAND fine grained w/ trace silt</u>	<u>Brown</u>	<u>medium dense</u>	<u>moist</u>		
3			<u>80%</u>	<u>6</u>	<u>1.2</u>						<u>3'</u>
4		<u>S3</u>	<u>1.5 / 2.0</u>	<u>12</u>		<u>SAND fine grained</u>	<u>Brown</u>	<u>medium dense</u>	<u>moist</u>		
5			<u>75%</u>	<u>8</u>	<u>1.1</u>						
6			<u>1.4 / 2.0</u>	<u>4</u>			<u>Brown to lite Brown</u>	<u>medium dense</u>	<u>Wet</u>		
7			<u>70%</u>	<u>8</u>	<u>1.1</u>						<u>7'</u>
8						<u>END of boring</u>					<u>water 6 to 6 1/2'</u>
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: ~~SB# 32~~ SB# 32 SHEET 1 OF 1  
 open storage area

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 OPEN STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB33  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/30/92</u>	<u>7.0</u>	<u>Sunny 85-90°F</u>	<u>6.10</u>	<u>TOB</u>
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 7 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-7' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)							
0.5		S-1									
1.0		A-NS									
1			1.2	11		SAND, FINE GRAINED TRACE SILT	LT. BROWN		DENSE		
2		S-2	2.0	22	0		BROWN				
3			3.0	60%	18		GRAY				
4		S-3	4.0	4	0	SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	WHITE		LOOSE		3.5
5			5.0	70%	4	SAND, FINE GRAINED, TRACE SILT	WHITE				
6		S-4	6.0	2		SAND, FINE GRAINED, TRACE SILT, SOME CLAY	LT. BROWN				5.0
7			7.0	60%	5	SAND, FINE GRAINED, TRACE SILT	LT. GRAY		LOOSE	MOIST WET, WATER AT	6.10
7						END OF BORING	AT	7.0'			7.0
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.  
 DRILLER: CHARLES CITSUM

BAKER REP.: R. SEVCIK  
 BORING NO.: SB33 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 open storage area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#34  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-30-92</u>	<u>5'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
		Type No. (N = No Samp.)									(Ft. & %)
		<u>S1</u>									
		<u>A-N</u>									
1			<u>17</u>		<u>SILT w/ some sand</u>	<u>Gray</u>	<u>Loose</u>	<u>Damp Plant material</u>			
2			<u>15</u>		<u>SAND fine grained w/ trace silt</u>	<u>dk gray to brown to dk brown</u>	<u>dense</u>	<u>Moist laminations</u>			
3		<u>S2</u>	<u>21</u>								
4			<u>7</u>		<u>SAND fine grained</u>	<u>dk brown to lite gray</u>	<u>medium dense</u>	<u>Wet</u>			
5			<u>10</u>							<u>5'</u>	
6					<u>End of boring 5'</u>					<u>Water 5'</u>	
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: SB#34 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT 203 OPEN STORAGE AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133-50-SRN BORING NO.: SB 35  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>MOBILE B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" I.D.</u>		<u>3 1/4" I.D.</u>		<u>8/30/92</u>	<u>5.0</u>	<u>SUNNY 85°-90°F</u>		
LENGTH	<u>2.0'</u>		<u>5.0'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: BORING ADVANCED TO 5 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-5' AT TWO FOOT INTERVALS. BOREHOLE GROUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION						
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations			ROCK
0.5		S-1											
1.0		A-NS											
1							SAND, FINE GRAINED TRACE SILT	LT. BROWN		DRY DAMP			
2		S-2	1.2	4									
3			60%	7									
3				8									
4		S-3	1.6	3				GRAY		MED. DENSE MUST			
4				7									
5			90%	8									
5										WET, WATER AT 5.0			
5							END OF BORING AT	AT	5.0'				
6													
7													
8													
9													
10													

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK  
 DRILLER: CHARLES CHISUM BORING NO.: SB 35 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Lot 203 open storage area R1/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB #36  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: mobile Drill 3								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		8-30-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring 5' taking continuous split spoon samples  
Pore hole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
	ROCK	Type No. (N = No Samp.)								(Ft. & %)	RQD (Ft. & %)
1		S1			SILT w/ some sand	Gray Blue	Loose	Damp	.5		
2		A-N	1.8 / 2.0	2	SAND fine grained w/ trace silt	Lite Gray	Loose	moist orange streaks			
3		S2	90%	4	SAND fine grained	Lite Gray	Loose	moist	3'		
4			1.7 / 2.0	3		Lite Gray	Loose medium dense	to orange streaks			
5			85%	5				Water	5'		
6					END of Boring 5'						
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: open storage #36 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 ~~Area~~ <sup>open storage area</sup> RI/FS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 37  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile Drill 3</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>8-31-92</u>	<u>7'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	Rwa PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>1.1</u>	<u>SILT w/ some sand</u>	<u>gray</u>	<u>Loose</u>	<u>Damp Root material</u>		
2		<u>A-N</u>	<u>1.3/20</u>	<u>76</u>		<u>1.1</u>	<u>SAND fine grained w/ trace silt</u>	<u>Brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>65%</u>	<u>79</u>								<u>3'</u>
4		<u>S3</u>	<u>1.6/20</u>	<u>83</u>		<u>1.2</u>	<u>SAND fine grained</u>	<u>Brown to lite brown to dk brown</u>	<u>medium dense</u>	<u>Moist</u>		
5			<u>80%</u>	<u>80</u>								
6			<u>1.5/20</u>	<u>86</u>		<u>1.3</u>		<u>dk Brown to Brown</u>	<u>medium dense</u>	<u>Wet</u>		
7			<u>75%</u>	<u>7</u>			<u>END of Boring 7'</u>					<u>7'</u>
8												<u>water 6 to 6 1/2'</u>
9												
10												

DRILLING CO.: Hardin Huber, Inc  
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: ~~SB# 37~~ SB# 37 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 65B38  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3.25" ID 8.25" ID</u>		<u>10-12-92</u>	<u>0'-3'</u>	<u>COOL, WET</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S-1 A.N.	N/A	N/A			SAND, MEDIUM TO FINE GRAINED, SOME SILT	brown	Medium dense	Damp		
2		S-2	2.0 2.0 100%	6 8 10						Wet, groundwater at 3'		3.0
3							END OF BORING AT 3.0'					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin & Huber, Inc.  
 DRILLER: C. CRISM

BAKER REP.: J. CILLIP  
 BORING NO.: 65B38 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_ BORING NO.: 6SB39  
 S.O. NO.: 19133  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3.25" ID</u> <u>3.25" ID</u>		<u>10-12-92</u>	<u>0'-21'</u>	<u>Cool, Wet</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>SFD</u>		<u>A.S.A.</u>						
HAMMER WT.	<u>142</u>								
WELL	<u>30"</u>								
STICK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S-1	N/A	N/A			Sand, medium to fine grained, little silt	brown	medium dense	damp		
2		S-2	1.3 / 2.0	7			Sand, medium to fine grained, little silt	brown	medium dense	damp		
3		S-3	1.4 / 2.0	7			Sand, medium to fine grained, trace silt	gray	medium dense	damp		
4		S-4	1.9 / 2.0	7			Sand, medium to fine grained, little silt	white	medium dense	damp		
5		S-5	1.8 / 2.0	7			Sand, fine grained, trace silt	brown	medium dense	moist		
6		S-6	1.9 / 2.0	7			Sand, medium to fine grained, trace silt	brown	medium dense	MOIST TO WET		

DRILLING CO.: Hardin Huber Inc  
 DRILLER: A. Blum

BAKER REP.: J. Culp  
 BORING NO.: 6SB39 SHEET 1 OF 2



## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 65B39

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1				9						WET groundwater at 10.8'		
1		S-7	2.0	4			SAND, medium grained, little SILT	brown	medium dense	Wet		
2			2.0	6								
3			100%	10								
3				14			SAND, medium grained, little SILT	brown	medium dense	wet		
4		S-8	2.0	8								
4			2.0	14								
5			100%	15								
5				16			SAND, medium grained, little SILT	brown	dense	WET		
6		S-9	2.0	8								
6			2.0	15								
7			100%	22								
7				32			SAND, medium grained, little SILT	brown	dense	wet		
8		S-10	2.0	16								
8			2.0	18								
9			100%	21								
9				22			SAND, medium grained, little SILT	brown	medium dense	wet		
0		S-11	2.0	10								
0			2.0	6								
1			100%	4								21.0
1							END OF BORING AT 21.0'					
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber Inc BAKER ID: J. Cule  
 DRILLER: A. Olson BORING NO.: 65B39 SHEET 202

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 65B41  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
	<u>1 7/8" ID</u>		<u>3.25" ID</u> <u>2.25" ID</u>		<u>10-12-92</u>	<u>0'-11'</u>	<u>COOL, wet</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION			
		Type No. (N = No Samp.)								(Ft. & %)	RQD (Ft. & %)	Pen. Rate
1		S-1 A.N.	N/A	N/A				Sand, Medium to fine grained, some SILT	Brown	dense	damp	
2		S-2	0.8 2.0 40%	5 5 1/4				Sand, Medium to fine grained, little SILT	brown	very dense	damp	
3								NOTE: Wood Fragments recovered				
4		S-3	0.0 2.0 0%	17 5 1/4								
5								NOTE: Wood Fragments recovered				
6		S-4	0.0 2.0 0%	5 8 20								
7								Sand, medium to fine grained, little SILT	brown	dense	MOIST.	
8		S-5	1.7 2.0 85%	15 17 21								
9								Sand, medium to fine grained, little SILT	brown	medium dense	Wet, groundwater at 9.3'	
10		S-6	1.2 2.0 60%	6 11 17								

DRILLING CO.: Hardin Huber Inc.  
 DRILLER: C. Chism

BAKER REP.: J. Cup  
 BORING NO.: 65B41 SHEET 1 OF 2



# FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 6SB41

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1				20								11.6
2							END OF BORING AT 11.0 FEET					
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber Inc  
 DRILLER: Chad Chism

BAKER NO.: J. Culp  
 BORING NO.: 6SB41 SHEET 2 of 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133  
 COORDINATES: EAST: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

BORING NO.: 6SB42  
 NORTH: \_\_\_\_\_  
 TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
	<u>1 7/8" ID</u>		<u>3.25" ID</u> <u>8.25" ID</u>		<u>10-12-92</u>	<u>0'-11'</u>	<u>cool, wet</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				Blows Per 0.5'								
1		S-1 A.N.	N/A	N/A			Sand, medium to fine grained, some silt	Brown	dense	damp		
2		S-2	1.0 2.0	8 10			Sand, medium to fine grained, little silt	Brown	very dense	damp		
3			50%				Metal fragments in auger in split spoon.			cuttings but no recovery		
4		S-3	0.0 2.0	7 5								
5			0%				Sand, medium to fine grained, little silt	brown	medium dense	moist, rubber fragments		
6		S-4	1.0 2.0	7 12								
7			50%	13			Sand, medium to fine grained, little silt	Brown	very dense	moist		
8		S-5	0.5 2.0	7 5								
9			25%				Sand, medium to fine grained, little silt	brown	medium dense	Wet, groundwater at 9.0'		
10		S-6	0.5 2.0	3 5								
			25%	7								

DRILLING CO.: Hardin Huber Inc.  
 DRILLER: A. Chism

BAKER REP.: J. Over  
 BORING NO.: 6SB42 SHEET 2 OF 2



# FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: \_\_\_\_\_  
S.O. NO.: 19133 BORING NO.: 65B42

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1				8								11.0
2							END OF BORING AT 11.0 FEET					
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber Inc.  
DRILLER: C. Chism

BAKER REP.: J. Culp  
BORING NO.: 65B42 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 6SB43  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3.25" FS 8.25" FD</u>		<u>10-12-92</u>	<u>0'-2.5'</u>	<u>COOL, WET</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>140#</u>								
	<u>30"</u>								
K UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain-Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>A.N.</u>					<u>Sand, medium to fine grained. Some SILT</u>	<u>brown</u>	<u>dense</u>	<u>damp</u>	
2		<u>GRS LINE</u>	<u>N.A.</u>	<u>N.R.</u>							
3							<u>END OF BORING AT 2.5'</u>				
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin, Huber Inc BAKER REP.: J. Culp  
 DRILLER: C. Chism BORING NO.: 6SB43 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 65844  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3.25 ID</u> <u>3.25 ID</u>		<u>10-12-92</u>	<u>0-2.5'</u>	<u>COOL, wet</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S-1</u>	<u>2.0</u>	<u>N.A.</u>			<u>Sand, medium to fine grained</u>	<u>brown</u>	<u>dense</u>	<u>damp</u>	
2			<u>100%</u>							<u>2.5</u>	
3							<u>END OF BORING AT 2.5'</u>				
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber Inc BAKER REP.: J. C. ...  
 DRILLER: C. Chism BORING NO.: 65844 SHEET 1 OF 1

**D.7**  
**Grid Ravine Area**

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# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 208, Ravine R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB #1  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG:	<u>Hand Auger</u>							TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/16" ID</u>		<u>3 1/4" ID</u>		<u>9-10-92</u>	<u>2.5'</u>	<u>Sunny 90°</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 2.5' taking continuous <sup>Hand auger</sup> split spoon samples  
Borehole grouted to surface. Note: Boring advanced with hand auger

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (FL & %)	Pen. Rate		PID (ppm)	Color			
1						<u>e</u> fine sand some silt	<u>light gray buff</u>	<u>NA</u>	<u>damp</u>		
2						<u>D</u> fine sand, little silt	<u>buff</u>	<u>↓</u>	<u>damp moist at 1.5' to 2.0'</u>		
3						<u>D</u> fine sand, little silt	<u>buff</u>	<u>↓</u>	<u>wet Water at 2.0'</u>		
4						End of boring at 2.5'					
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardie Huber, Inc.  
 DRILLER: Chad Chism

BAKER REP.: D.J. Martin  
 BORING NO.: Ravine SB1 SHEET 1 OF 1

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 202, Ravine Area RIFS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>NA</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-10-92</u>	<u>3.0</u>	<u>Sunny 90°</u>	/	/
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 3.0' taking continuous <sup>hand auger</sup> split spoon samples  
Borehole grouted to surface. Note: Boring was advanced with hand auger

DRILL RECORD								VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations		SOIL ELEVATION	
	ROCK	Type - No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		ROCK
1						<u>Silt and fine sand, some loam</u>	<u>Black</u>		<u>damp</u>			
2						<u>* fine sand, some silt</u>			<u>* OVA malfunction, no readings for Boring</u>			
3						<u>fine sand little silt</u>			<u>moist</u>			
4						<u>End of Boring at 3.0'</u>			<u>wet water at 3.0'</u>			
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: Chad Chism BORING NO.: Ravine Area SB-2 SHEET     OF



# FIELD TEST BORING RECORD

PROJECT: Lot 203, Ravine RIFES Camp Lejeune  
 S.O. NO.: 19135 BORING NO.: SB#3  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)					9-11-92	6	80° clear	/	/
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 6'  
Borehole grouted to surface

DRILL RECORD						VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (FL & %)	Pen. Rate	OVA PMS (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	
1						Silt some fine sand, trace organic rich material Silt some fine sand	lt. yellow brown		dry	
2					17.2	fine sand some silt	light yellow brown		dry moist	
3					7		buff			
4					2					
5						fine sand and silt + little clay	lt. brown		Color also orange mottled water at 5.5'	
6						End of boring at 6'			wet	
7										
8										
9										
10										

DRILLING CO.: Hardin Baker, Inc. BAKER REP.: D. J. Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: RAV SB.3 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, Ravine

RIFS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB#4

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)					<u>9-10-92</u>	<u>10'</u>	<u>88° partly cloudy</u>		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 10'  
Borehole grouted to surface DO=DIDO

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	OVA PMS (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1							Silt and fine sand, trace organic fine sand and silt, trace gravel sized sand nodules	lt. grey lt. yellow brn.		dry		
2						1.8	DO.			damp		
						0.2	fine sand, little silt	lt. yellow brn. buff				
3												
4							silt, some sand little clay	lt. brn		damp non plastic		
5												
6							DO.	lt. brn w/ orange weathering		moist		
7												
8												
9							clay & silt, trace fine sand	grey-brn orange mottled		moist plastic		
10							End of Boring at 10'					

DRILLING CO.: [Redacted]

BAKER REP.: D.J. Martin

DRILLER: \_\_\_\_\_

BORING NO.: RAV SB4

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, RAUINE AREA, RIFE's Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 4A  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)					<u>9-15-92</u>	<u>2</u>	<u>Sunny 85°</u>		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 2'  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1							<u>fine sand, little silt, trace organic rich material</u>	<u>buff</u>		<u>damp</u>		
2					<u>4</u>		<u>fine sand, little silt</u>	<u>buff</u>		<u>damp wet</u>		<u>water at 2'</u>
3							<u>End of boring at 2'</u>					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Water, Inc. BAKER REP.: D.V. Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: RAV SB4A SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, RAUINE AREA

RIFES Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 5

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)					<u>9-15-92</u>	<u>3.0</u>	<u>85° Sunny</u>	/	/
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 3'  
Borehole grouted to surface

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL / ROCK	Sample ID / Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate			PID (ppm)			
1						Silt and fine sand, fine sand, little silt	light grey		dry - trace organic rich material		
2						silt and fine sand	orange brown		clay		
3						End of boring at 3'			moist		
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: ~~Hand Auger Inc.~~

BAKER REP.: DJ Martin

DRILLER: \_\_\_\_\_

BORING NO.: RAV SB5

SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 203, RAVINE RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 6  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)					<u>9-15-92</u>	<u>4'</u>	<u>85° sunny</u>		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 4.0'  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate						
1						0 fine sand and silt, some peat FILL	brown gray		dry		
						0 silt and fine sand FILL			NOTE: Augered through battery at 1-1.5', battery cells retrieved in sample damp. NOTE: HNU reading 70ppm in auger hole		
2						0 fine sand and silt	lt. brown				
3						0 fine sand, little silt	light orange brown		moist	sample dk, brn at tip of auger	
4						End of boring at 4'					
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: Dirt Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: RAV SB6 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 203, Ravine Area R/ES Comp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)					9-15-92	4.0	85° sunny		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 4.0'  
Borehole grouted to surface DO = D1D0

DRILL RECORD							VISUAL DESCRIPTION				SOIL ROCK	ELEVATION
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations		
					RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1							0. Fine sand and silt, trace gravel, little organic rich material	brn, gry		dry		
2							0. Fine sand, little silt	lt. brn		damp		
3							0. DO.					
4							0. DO.					
4							0. Fine sand, little silt	lt. brn		damp		
4							End of boring at 4.0'					
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Auger, Inc. BAKER REP.: D.J. Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: RAV SB-7 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203, RAUVINE AREA RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)					<u>9-15-92</u>	<u>3'</u>	<u>B5 sunny</u>	<u>/</u>	<u>/</u>
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1							fine sand and silt, little organic rich material	brn gry		damp		
2							fine sand little silt DO.	lt. brn yellow brn		damp moist moist		
3							silt and fine sand, little clay	lt. brn & gry mottled		water at 3'		
4							End of Boring at 3'					
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D.J. Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: RAV SB 8 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 203 RAVINE Area RIFS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 9  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand Auger</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)					9-15-92	2.5	85° sunny		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 2.5'  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color			Hardness
1						fine sand and silt, some organic rich material	brn gry		damp moist		
2						Do. except trace organic rich material fine sand, little silt	buff		moist wet water @ 2.5'		
3						End of Boring at 2.5'					
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: ~~Hardie Huber, Inc.~~ BAKER REP.: D. J. Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: RAV SB 9 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: 6-Ravine area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Hand auger					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
					9-14-92	2.3'	Sunny/mild		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 2.3' using hand auger  
Borehole grouted to surface

DRILL RECORD						VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	HNA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)		Pen. Rate	Classification (Name, Grain-Size, Principal Constituents, Etc.)	Color	Hardness		
1		S1			.9	SILT w/ little sand	dk. gray	Loose	Dry Root material		
					.8	SAND fine grained w/ some silt	dk gray	Loose	Moist		
					.9		dk gray	Loose	Moist Root material		
2		S2			1.0		dk. brown	Loose	Moist wet		
3									(at bottom)		
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: ~~\_\_\_\_\_~~ BAKER REP.: J. E. Zimmerman, Jr  
 DRILLER: \_\_\_\_\_ BORING NO.: 6-RAV SB#10 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: 6- Ravine area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 11  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Hand auger					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)				9-14-92	3'	Sunny/mild			
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 3' using hand auger  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type - No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	Hum. PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1				1.4	SILT w/ little sand	light brown	Loose	Dry Root/organic material	
						1.2	SILT w/ some sand	light brown	Loose	Dry	
						1.2	SAND fine grained	yellow brown	Loose	Dry	
2						1.2		yellow brown	Loose	Moist	
						1.1		yellow brown	Loose	Moist	
3		S2				1.1		yellow brown gray to	Loose	Wet	
4							END of Boring	yellow brown to yellow orange			
5											
6											
7											
8											
9											
10											

DRILLING CO.: ~~Hardin~~  
 DRILLER: \_\_\_\_\_

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: 6-RAV SB# 11 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: 6- Ravine area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 12  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Hand auger					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)					9-14-92	2'	sunny/mild		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 2' using hand auger  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	HRM. PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.5	SAND fine grained w/ trace silt	gray to brown	Loose	Damp		
						1.6		brown	Loose	Damp		
2		S2				1.6	END of Boring	brown to gray	Loose	Wet		Water 2'
3												
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: ~~Hand Auger, Inc.~~  
 DRILLER: \_\_\_\_\_

BAKER REP.: J.E. Zimmerman, JR.  
 BORING NO.: 6-RAV SB#12 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: 6-Ravine area R/ES Camp Lejeune  
 S.O. NO.: 19/98 BORING NO.: SB# 13  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: Hand auger					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)				9-14-92	4'	Sunny/mild			
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 4' using hand auger  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HWL PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.4	SILT w/ little sand	DK. gray	Loose	Dry Root material organic rich		
2						1.5		DK. gray	Loose	Dry Root material organic rich		
3						1.5		DK. gray	Loose	Dry Root material organic rich		
4		S2				2.5 to 4.0 17 to 81	END of Boring	DK. gray to yellow brown	Loose	Damp strong organic odor w/ trace of clay which has green appearance		
5												
6												
7												
8												
9												
10												

DRILLING CO.: ~~Hand Auger~~  
 DRILLER: \_\_\_\_\_

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: 6-RAV SB# 13 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: 6-Ravine area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 14  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand auger</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)					9-14-92	2'	Sunny/mild		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 2' using hand auger  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		HW. PID (ppm)	Color	Hardness		
1		S1				SILT w/ some sand	gray to lite brown	Loose	Damp Root material / organic rich		Water 2'
		S2				SAND fine grained w/ trace silt	gray to lite brown	Loose	Wet		
2						END of Boring					
3											
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: ~~Hand Auger~~  
 DRILLER: \_\_\_\_\_

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: 6-RAV SB#14 SHEET 1 OF 1

**D.8**  
**Grid 201N**

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# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201N area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-11-92</u>	<u>3'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HALL PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)		RQD (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		<u>S1</u>				<u>13</u>	<u>HUMUS material w/ some silt trace sand</u>	<u>black</u>	<u>Loose</u>	<u>Damp Root material</u>		
<u>1</u>		<u>R-N</u>										
<u>2</u>		<u>S2</u>	<u>1.4</u>	<u>12</u>		<u>13</u>	<u>SAND fine grained w/ trace silt</u>	<u>dk brown to lt brown to brown</u>	<u>medium dense</u>	<u>Moist to Wet (at bottom)</u>		
<u>3</u>			<u>70%</u>	<u>13</u>			<u>END of Boring</u>					<u>3</u>
<u>4</u>												
<u>5</u>												
<u>6</u>												
<u>7</u>												
<u>8</u>												
<u>9</u>												
<u>10</u>												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR.  
 BORING NO.: Lot 201N SB# 2 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 North area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9-10-92	5	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		Moist. PID (ppm)	Color	Hardness		
1		S1 K-N				SILT w/ some sand	gray to dk gray	Loose	Damp Plant & Root material		
2		S2	1.2 20	4 5		SAND fine grained w/ trace silt	yellow brown to brown	medium dense to loose	Moist lite gray laminations		
3			60%	4 6		SAND fine grained					
4			1.4 2.0	2 3			lite brown	Loose	Wet		Water 4' to 4 1/2'
5			70%	4 6	1.2						
6						END of Boring					
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Lot 201 N. SB# 2 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 North area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#3  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9-10-92	5	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HWA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1 A-N				1.2	SILT w/ some sand	gray	Loose	Damp Root & plant material		
2		S2	10/20	6		1.3	SAND fine grained w/ trace silt	brown to dk. brown	medium dense	Moist		
3			50%	10			SAND fine grained	dk brown to brown to lite brown	medium dense	Moist to Wet (at bottom)		
4			15/20	4		1.2						Wet 4' +
5			75%	9								4 1/2'
5				11			END of Boring					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: Lot 201 N. SB#3 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 201 North area R/LES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 4  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-10-92	3'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HMW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.0	SILT w/ some sand	Yellow brown	Loose	Damp Root material		
2		S2	1.5 2.0	11 12 10		1.1	SAND fine grained ultrace silt	yellow brown to light gray to light brown	medium dense	Moist to wet (at bottom)		Water 2' to 2 1/2'
3			75%	12			END of Boring					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J. E. Zimmerman, JR  
 DRILLER: T. Cramer BORING NO.: Lot 201 N. SB# 4 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 North RIFES Camp Lejeune  
S.O. NO.: 19133 BORING NO.: SB# 5  
COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-10-92</u>	<u>9'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HMA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u> <u>A-N</u>				<u>1.8</u>	<u>SILT w/ some sand</u>	<u>buff to brown</u>	<u>Loose</u>	<u>Damp Root material</u>		
2			<u>1.7</u> <u>20</u>	<u>5</u> <u>10</u> <u>7</u> <u>8</u>		<u>1.3</u>	<u>SAND fine grained</u> <u>w/ trace silt</u>	<u>brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>85%</u>									
4			<u>1.4</u> <u>2.0</u>	<u>4</u> <u>4</u> <u>4</u> <u>10</u>		<u>1.3</u>	<u>SAND fine grained</u>	<u>brown</u>	<u>Loose</u>	<u>Moist</u>		
5			<u>70%</u>									
6		<u>S4</u>	<u>1.4</u> <u>2.0</u>	<u>8</u> <u>18</u> <u>22</u> <u>24</u>		<u>1.2</u>		<u>brown to</u> <u>light gray to</u> <u>brown</u>	<u>dense</u>	<u>Moist</u>		
7			<u>70%</u>									
8			<u>1.3</u> <u>2.0</u>	<u>10</u> <u>17</u> <u>18</u> <u>20</u>		<u>1.4</u>		<u>yellow</u> <u>brown to</u> <u>brown</u>	<u>dense</u>	<u>Wet</u> <u>light gray</u> <u>laminations</u>		<u>Water</u> <u>8 to</u> <u>8 1/2</u>
9			<u>65%</u>				<u>END of Boring</u>					
10												

DRILLING CO.: Hardin Huber, Inc.  
DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR  
BORING NO.: 19133 SB# 5 SHEET 1 OF 1  
Lot 201 N.

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201N area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 6  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 7/8" ID		3/4" ID		9-11-92	3'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	Hard PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1 A-N				1.4	SILT w/some sand	black	Loose	Damp Root material	
2		S2	1.6 20	3 6 9		1.5	SAND fine grained w/trace silt	brown to light brown	medium dense	Moist to wet (at bottom)	
3			80%	14			END of Boring				Water 3'
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR.  
 BORING NO.: Lot 201N SB# 6 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201N area RIFS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9/11/92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
TICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Sample Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	Ku PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.2	Silt w/ some sand and humus material	gray to bk brown	Loose	Damp	Root material	
2		A-N	1.6 / 2.0	5 / 7		1.4	SAND fine grained w/ trace silt	dk brown to brown to lite brown	medium dense	Moist		
3			80%	00								
4			1.4 / 2.0	3 / 13		1.4	SAND fine grained	lite brown	medium dense	Wet		Wat 4'
5			70%	21			END of Boring					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr  
 DRILLER: T. Cramer BORING NO.: Lot 201N SB# 7 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201N area

R/ES Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 8

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3/4" ID		9/11/92	5'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate	HQU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N					SILT w/ some sand	dk gray	Loose	Damp Root material.		
2		S2	1.6 2.0	5 6			SAND fine grained w/ trace silt	dk brown to brown	medium dense	Moist		
3			80%	10								
4			1.7 2.0	2			SAND fine grained	brown	medium dense	Wet		Water 4'
5			85%	2000			END of Boring					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr

BORING NO.: Lot 201N SB# 8 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201N area  
S.O. NO.: 19/33  
COORDINATES: EAST: \_\_\_\_\_  
ELEVATION: SURFACE: \_\_\_\_\_

RIFS Camp Lejeune  
BORING NO.: SB# 9  
NORTH: \_\_\_\_\_  
TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		9/11/92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	H <sub>2</sub> O PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		S1				1.4	HUMUS material w/trace silt	Dk brown	Loose	Damp Root & Plant material		
1		A-N	.4	1			SAND fine grained w/trace silt & Humus material	Dk brown to brown to lite brown	Loose	Moist		
2		S2	2.0	1		1.3						
3			20%	2								
4			12	7		1.3	SAND fine grained	brown to lite brown	medium dense	Wet		Note 4'
5			2.0	8			END of Boring					
6			60%	14								
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr  
BORING NO.: Lot 201N SB# 9 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201N area R/Es Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		9-11-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD						VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HW, PID (ppm)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		S1				SILT w/ some sand	grey to blue	Loose	Damp Root & Plant material	
2		A-N	1.6 / 2.0	3		SAND fine grained w/ trace silt	yellow brown to brown	Loose	Moist	
3			80%	4						
4		S3	1.5 / 2.0	2		SAND fine grained	lite brown to yellow brown	Loose	Moist	
5			75%	4						
6			1.5 / 2.0	2			lite brown	medium dense	Wet (at bottom)	
7			75%	4						
7				8		END of Boring				Water 7'
8										
9										
10										

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Lot 201N SB# 10 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 65B11  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3.25" ID</u> <u>2.25" ID</u>		<u>10-13-92</u>	<u>0'-17'</u>	<u>Clear, Cool</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>SID</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
					Type No. (N = No Samp.)	(Ft. & %)						
1		S-1	N/A	N/A			Sand, medium grained, little silt	brown	loose	damp		
2		A.N.	1.9 2.0	2			Sand, medium grained, little silt	grey	loose	damp		
3		S-2	95%	3			Sand, medium to fine grained, little silt	brown	loose	damp		
4		S-3	1.8 2.0	3			Sand, medium to fine grained, little silt	brown	loose	damp		
5		S-4	90%	4			Sand, medium to fine grained, little silt	brown	loose	damp		
6		S-5	1.9 2.0	4			Sand, medium to fine grained, little silt	brown	medium dense	damp		
7		S-6	95%	5			Sand, medium to fine grained, little silt	brown	medium dense	damp		
8		S-7	1.7 2.0	11			Sand, medium to fine grained, little silt	brown	medium dense	damp		
9		S-8	95%	13			Sand, medium to fine grained, little silt	brown	medium dense	damp		
10		S-9	1.7 2.0	8			Sand, medium to fine grained, little silt	brown	medium dense	damp		

DRILLING CO.: Hardin, Huber, Inc.  
 DRILLER: C. Phisom

BAKER REP.: J. M. L.P.  
 BORING NO.: 65B11 SHEET 1 OF 2



# FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: 85B 11

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1				7								
2		S-7	2.0 2.0 100%	14 11 13 11			Sand, medium grained with SILT	Grey	medium dense	damp		
3												
4		S-8	2.0 2.0 100%	14 11 21 15			Sand, medium grained Little SILT	Grey	dense	moist		
5												
6		S-9	1.9 2.0 95%	13 15 18 23			Sand, medium grained, with SILT	Grey	dense	Wet, groundwater at 16.5 Feet.		
7							END OF BORING AT 17.0 FEET					17.0
8												
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber Inc. BAKER ID.: J. Culp  
 DRILLER: C. Chism BORING NO.: 65B11 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: \_\_\_\_\_  
 S.O. NO.: 19133 BORING NO.: GSB12  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	<u>2'</u>		<u>5'</u>		<u>10-13-92</u>	<u>0'-7'</u>	<u>Clear, Cool</u>		
TYPE	<u>SID</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>140#</u>								
WHEEL	<u>30"</u>								
STICK UP									

REMARKS: \_\_\_\_\_

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				RQD (Ft & %)							
1		S-1	N/A	N/A		SAND, medium grained, little silt	grey	medium dense	damp		
2		S-2	1.9 / 2.0	6 / 7		Sand, medium grained, little silt	brown	medium dense	damp		
3			95%	6		Sand, medium to fine grained, little silt	Grey	loose	moist		
4		S-3	2.0 / 2.0	5 / 4		Sand, medium to fine grained, little silt	Grey	medium dense	Wet, groundwater at 5.0'		
5			100%	3							
6		S-4	1.7 / 2.0	5 / 6							
7			85%	6 / 9							
8						END OF BORING AT 7.0'					
9											
10											

DRILLING CO.: Hardin Baker, Inc. BAKER REP.: J. Calo  
 DRILLER: C. Chism BORING NO.: GSB12 SHEET 1 OF 1

**D.9**  
**Grid 201E**

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# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 1  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>		<u>9/11/92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	WU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		<u>S1</u>				<u>1.3</u>	<u>SILT w/ some sand</u>	<u>dk. gray</u>	<u>Loose</u>	<u>Damp Root/plant material</u>		
2		<u>A-N</u>	<u>1.3</u>	<u>3</u>			<u>SAND fine grained w/ trace silt</u>	<u>lite gray to dk. brown</u>	<u>medium dense</u>	<u>Moist</u>		
3		<u>S2</u>	<u>65%</u>	<u>4</u>	<u>1.2</u>		<u>SAND fine grained</u>	<u>dk. brown</u>	<u>medium dense</u>	<u>Wet</u>		
4			<u>1.6</u>	<u>2</u>		<u>1.2</u>		<u>dk. brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>Wet 4'</u>
5			<u>80%</u>	<u>6</u>			<u>END of Boring</u>					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr  
 DRILLER: T. Cramer BORING NO.: Lot 201 E SB# 1 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 201 E area R/Es Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-11-92</u>	<u>3'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HALL PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		<u>S1</u>				<u>1.4</u>	<u>SILT w/ some sand</u>	<u>gray</u>	<u>Loose</u>	<u>Damp Root/plant material</u>		
<u>1</u>		<u>A-N</u>										
<u>2</u>		<u>32</u>	<u>1.7/20</u>	<u>3</u>			<u>SAND fine grained w/ trace silt</u>	<u>DK. brown to brown to lite brown</u>	<u>medium dense</u>	<u>Moist to wet (at bottom)</u>		
<u>3</u>			<u>85%</u>	<u>5</u>		<u>1.3</u>						<u>water 3'</u>
<u>3</u>				<u>6</u>			<u>END of Boring</u>					
<u>4</u>				<u>7</u>								
<u>5</u>				<u>8</u>								
<u>6</u>				<u>9</u>								
<u>7</u>				<u>10</u>								

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J. E. Zimmerman, JR.  
 DRILLER: T. Cramer BORING NO.: Lot 201 E SB# 2 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 3  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-11-92</u>	<u>3'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Hall PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		<u>S1</u>				<u>21</u>	<u>SILT w/some sand</u>	<u>dk. gray</u>	<u>Loose</u>	<u>Damp Root/Plant material</u>		
<u>1</u>		<u>R-N</u>										
<u>2</u>		<u>S2</u>	<u>1.7 / 2.0</u>	<u>3 / 5 / 6 / 8</u>		<u>1.2</u>	<u>SAND fine grained w/trace silt</u>	<u>dk. brown to brown to lite brown</u>	<u>medium dense</u>	<u>Moist to Wet (at bottom)</u>		<u>Water 3'</u>
<u>3</u>			<u>85%</u>				<u>END of Boring</u>					
<u>4</u>												
<u>5</u>												
<u>6</u>												
<u>7</u>												
<u>8</u>												
<u>9</u>												
<u>10</u>												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR.  
 BORING NO.: Lot 201 E SB# 3 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 201E area R/ES Camp Lejeune  
 S.O. NO.: 19/38 BORING NO.: SB# 4  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-11-92	3'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	MAX PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.3	SILT w/ some sand	DK. gray	Loose	Damp Root/plant material		
2		R-N		5		1.7	SAND fine grained w/ trace silt	gray to brown to DK. brown	medium dense	Moist to Wet (at bottom)		Water 3'
3		S2	118	8								
			2.0	14								
			90%	10			END of Boring					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, JR.  
 DRILLER: T. Cramer BORING NO.: Lot 201E SB# 4 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 5  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9/11/92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION			
				RQD (FL & %)	Pen. Rate				Mo. PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color
1		S1 A-N									
2		S2	1.3 2.0	8 12							
3			65%	11 12							
4			1.3 2.0	6 10							
5			65%	14 22							
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: Lot 201 E SB# 5 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 6  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-12-92	7'	sunny/mild		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	HMM PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
	ROCK	Type - No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)							Pen. Rate
1		S1 A-N			1.5	SILT w/ some sand	gray to dk. gray	Loose	Damp Root/plant material		
2			1.3 20	8		SAND fine grained w/ trace silt	brown to dk. brown	medium dense	Moist		
3			65%	19							
4		S3	1.5 20	6		SAND fine grained	dk. brown to brown	medium dense	Moist		
5			75%	11							
6			1.3 20	4			lt. brown	medium dense	Wet		
7			65%	14	1.3						
8						END of Boring					
9											
10											

Water 5 1/2' to 6'

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. CRAMER

BAKER REP.: J. E. Zimmerman, JR  
 BORING NO.: Lot 201 E SB# 6 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-12-92	3'	Sunny/mild		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HNW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1				1.3	SILT w/ some sand	dk. gray	Loose	Damp Root/plant material		
2		M-N										
2		S2	10/20	10		1.3	SAND fine grained w/ trace silt	brown	medium dense	Moist to wet (at bottom)		water
3			50%	00			END of Boring					3'
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J. E. Zimmerman, JR.  
 DRILLER: T. Cramer BORING NO.: Lot 201 E SB# 7 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3/4" ID		9-12-92	5'	sunny/mild		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HWA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.3	SILT w/some sand	gray to brown	Loose	Damp Root/plant material		
2		S2	1.6/20	4 12 12		1.3	SAND fine grained w/trace silt	light brown	medium dense	Damp to Moist		
3			80%	14			SAND fine grained	light brown	medium dense			
4			1.4/20	4 11 13		1.2				Wet		
5			70%	20			END of Boring					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: Lot 201 E SB# 8 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#9  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	2'		3 1/4" ID		9-12-92	5'	sunny/mild		
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	MNA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate		
		S1				1.3	SILT w/ some sand	gray to dk. gray	Loose	Damp		
1		A-N										
2		S2	1.7	6			SAND fine grained w/ trace silt	gray to brown to lite brown	medium dense	Moist		
3			85%	14								
4			1.6	3		1.3	SAND fine grained	lite brown	medium dense	Moist to wet (at bottom)		
5			80%	11			END of Boring					Water 5'
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: Lot 201 E SB#9 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9-12-92	5'	Sunny/mild		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MVA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Type No. (N = No Samp.)	RQD (Ft. & %)	Pen. Rate	Classification (Name, Grain Size, Principal Constituents, Etc.)		
1		S1				1.3	SILT w/ some sand	gray	Loose	Damp Root/plant material		
2		A-N	3/20	56		2.8	SAND fine grained w/ trace silt	gray to light gray	medium dense	Damp		
3			15%	89			SAND fine grained					
4			12/20	47		1.5		brown	medium dense	Moist to wet		
5			60%	88			END of Boring					Water 3 1/2' to 4'
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: Lot 201 E SB# 10 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 11  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		9-12-92	5'	Sunny/mild		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (FL & %)	Pen. Rate						
		S1				SILT w/ some sand	gray	Loose	Damp Root/plant material		
1		A-N									
2		S2	.8 2.0	9 16 18		SAND fine grained w/ trace silt	light brown	dense	Moist		
3			40%	21							
4			1.4 2.0	9 10 12		SAND fine grained	brown	medium dense	Wet		Wet 4' + 4 1/2'
5			70%	10		END of Boring					
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: Lot 201 E SB# 11 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#12  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 9/16" ID		3 1/4" ID		9-13-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	HNW PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
							Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		
1		S1				1.6	SILT w/ some sand	gray	Loose	Damp Root plant material gravel occasional		
2		A-N		11			SAND fine grained w/ trace silt	Gray to dk gray	medium dense	Moist		
3		S2	65%	13		1.6						
4				9			SAND fine grained	Brown	medium dense to loose	Wet		
5				2		1.7						
6				4			END OF BORING					
7				5								
8				7								
9				5								
10				7								

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr  
 DRILLER: T. Cramer BORING NO.: Lot 201 E SB#12 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#13  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9-13-92	5'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HNW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		S1				1.6	SILT w/ some sand	gray	Loose	Damp Root/plant material		
1		A-N		16			SAND fine grained w/ trace silt	gray to brown to lite brown	Loose	Moist		
2			20	2		1.5						
3			80%	5		8						
4		S3		14			SAND fine grained	yellow brown to lite gray	medium dense	Moist to wet (at bottom)		Water 4 1/2' 5'
5			20%	4								
6				6								
7				10								
8				12								
9							END of Boring					
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR  
 BORING NO.: Lot 201 E SB#13 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area

R/ES Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 14

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3/4" ID		9-13-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									(Ft. & %)
1		S1			SILT w/ some sand	gray	Loose	Damp Root/plant material			
2		A-N	.8 2.0	3 4	SAND fine grained w/ trace silt	gray to yellow brown to dk gray	medium dense	Moist			
3			40%	7							
4		S3	1.3 2.0	3 6	SAND fine grained	lite brown	medium dense	Moist to wet (at bottom)		water 5'	
5			65%	12	END of Boring						
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: Lot 201 E SB#14 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 15  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-13-92	3'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HWA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.5	SILT w/ some sand	gray	Loose	Damp Root/Plant material		
2		A-N	1.4	2			SAND fine grained w/ trace silt	brown	medium dense	Moist to Wet (at bottom)		
3		S2	2.0	4		1.5						
4			70%	6			END of Boring					
5				7								
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr  
 DRILLER: T. Cramer BORING NO.: Lot 201 E SB# 15 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 16  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-13-92	5'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	HNu PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1				2.1	SILT w/ some sand	brown	Loose	Damp Root/plant material	
2		A-N		1.5 14 20 13 10		1.5	SAND fine grained w/ trace silt	lite brown	medium dense	Moist orange/yellow laminations	
3			75%	7							
4		S3		1.7 5 20 13 12		1.5	SAND fine grained	dk brown to lite brown	medium dense	Moist orange/yellow laminations to wet (at bottom)	Water 4 1/2 to 5'
5			85%	10			END of Boring				
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR  
 BORING NO.: Lot 201 E SB# 16 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 17  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9-13-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
					Type No. (N = No Samp.)	RQD (Ft. & %)	Pen. Rate	HNu PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color		
		S1					SILT w/ some sand	gray to brown	Loose	Damp Root plant material		
1		A-N										
2			.9 / 2.0	2			SAND fine grained w/ trace silt	lite brown to brown to lite brown	medium dense	Moist		
3			45%	5		1.4						
4		S3	1.4 / 2.0	6			SAND fine grained					
5		.....	70%	4		1.5		lite brown	medium dense	Moist to wet (at bottom)		Water 4 1/2 to 5'
6				5			END of Boring					
7				6								
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: Lot 201 E SB# 17 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 E area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 18  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 9/8" ID		3/4" ID		9-13-92	3'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (FL & %)	Pen. Rate						
1		S1 A-N				1.6 SILT w/ some sand	gray to brown	Loose	Damp Root / Plant material /		trace grave
2		S2 .....	1.2 20	5 6 6		1.6 SAND fine grained w/ trace silt	brown to like brown	medium dense	Moist to wet (at bottom)		Water 3'
3			60%	8		END of Boring					
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: Lot 201 E SB#18 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 East Area

RIFES Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 19

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG:					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3/4" ID</u>						
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to ' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (FL & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		S1				Coarse to fine sand, some silt trace coarse to fine gravel	gray brown		damp		
2		S2	1.5/20	5		fine sand, little silt	buff	loose	damp		
3			75%	5			black brown to brown				
4		S3	1.67/20	4		DO.		medium dense	damp - 2.5" area of organic rich material influencing the sample at four inches from top of spoon.		
5			84%	6					water at 5.5'		
6		S4	1.5/20	6		fine sand, some silt	brown to buff to brown	medium dense	wet		
7			75%	6							
8						End of boring at 7'					
9											
10											

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: DJ Martin

DRILLER: C. Chism

BORING NO.: Lot 201 East Area SB19 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 East Area  
 S.O. NO.: 19133  
 COORDINATES: EAST: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIFES Camp Lejeune  
 BORING NO.: SB# 20  
 NORTH: \_\_\_\_\_  
 TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	2'		5'		9-15-92	7	83° sunny		
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N	1.67 2.0	5 5		1.0	Silt and fine sand, little organic rich matter	DK. gry brown		dry		
2		S2	84%	5 4		0	Silt and fine sand	Dark brown to brown	Medium stiff	dry		
3				5						damp		
4		S3	1.67 2.0	5 4		0	fine sand some silt	lt. gry to buff	loose	damp		
5				2 3								
6		S4	1.33 2.0	5 4		0.6				moist wet		Water at 6'
7			67%	3			End of Boring at 7'					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: C. Chism

BAKER REP.: D. J. Martin  
 BORING NO.: Lot 201 East SB 20 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 201 East Area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 21  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG:					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-15-92</u>	<u>3</u>	<u>83° sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		<u>S1</u> <u>A-N</u>				<u>fine sand, some silt trace, medium sand, little organic rich matter</u>	<u>dry brown</u>		<u>moist</u>		
2		<u>S2</u>	<u>1.58</u> <u>2.0</u> <u>79%</u>	<u>6</u> <u>8</u> <u>9</u> <u>10</u>		<u>fine sand, little silt</u>	<u>light gray</u>	<u>medium dense</u>	<u>wet</u>		
3						<u>End of Boring at 3'</u>					
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: A J Martin  
 DRILLER: C. Chism BORING NO.: Lot 201 East SB 21 SHEET 1 OF 1

**D.10**  
**Grid 201S**

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# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 S area

RIFS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 1

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Hand auger</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)					<u>9-15-92</u>	<u>2'</u>	<u>Sunny/mild</u>		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 2' with hand auger  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	H <sub>2</sub> O PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S1</u>				<u>.6</u>	<u>SILT w/ little sand</u>	<u>lite brown</u>	<u>Loose</u>	<u>Dry Root material &amp; gravel</u>	<u>Water 1 1/2' + 2'</u>
						<u>.7</u>	<u>SAND fine grained</u>	<u>lite brown</u>	<u>Loose</u>	<u>Damp</u>	
						<u>.7</u>		<u>lite brown</u>	<u>Loose</u>	<u>Moist</u>	
2		<u>S2</u>				<u>.9</u>		<u>lite brown</u>	<u>Loose</u>	<u>Wet</u>	
3											
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: ~~Harris~~

BAKER REP.: J.E. Zimmerman, Jr.

DRILLER: \_\_\_\_\_

BORING NO.: Lot 201 S SB# 1 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 2015 area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 2  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-15-92</u>	<u>3'</u>	<u>Sunny/mild</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		H <sub>2</sub> O PID (ppm)	Color	Hardness		
1		<u>SI</u> <u>A-N</u>				<u>HUMUS material w/ little silt</u>	<u>dk. brown</u>	<u>Loose</u>	<u>Damp organic material / Rot material</u>		
2			<u>1.6</u> <u>2.0</u>	<u>2</u> <u>6</u>							<u>Water 1'</u>
3			<u>80%</u>	<u>8</u> <u>9</u>	<u>1.0</u>				<u>* unable to take sample due to saturation</u> <u>Wet</u>		
4						<u>END of Boring</u>					
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr.  
 DRILLER: T. Cramer BORING NO.: Lot 2015 SB# 2 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 2015 area  
 S.O. NO.: 19133  
 COORDINATES: EAST: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

R/ES Camp Lejeune  
 BORING NO.: SB# 3  
 NORTH: \_\_\_\_\_  
 TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 9/16" ID		3 1/4" ID		9-15-92	5'	sunny/mild		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	H/A/PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		51 A-N				.9	HUMUS material w/ little silt	dk. brown	Loose	Dry Root material / organic material		
2			1.3 / 20	5			SAND fine grained w/ trace silt	brown to gray	medium dense	Moist		
3			65%	8		1.0						
4		53 ....	1.6 / 20	10			SAND fine grained	lite brown	medium dense	Wet		
5			80%	14		.9						
6							END of Boring					
7												
8												
9												
10												

Water: 4 1/2' to 5'

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR.  
 BORING NO.: Lot 2015 SB# 3 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 S area RIFs Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#4  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-15-92</u>	<u>5'</u>	<u>Sunny/mild</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		HMW PID (ppm)	Color			
						<u>.9 SILT w/ little sand</u>	<u>dk. gray</u>	<u>Loose</u>	<u>Dry Root/plant material</u>		
<u>1</u>		<u>A-N</u>	<u>1.5</u>	<u>5</u>		<u>SAND fine grained w/ trace silt</u>	<u>dk. gray</u>	<u>medium dense</u>	<u>Moist</u>		
<u>2</u>			<u>2.0</u>	<u>4</u>	<u>1.0</u>						
<u>3</u>			<u>75%</u>	<u>7</u>							
<u>4</u>			<u>1.2</u>	<u>1</u>		<u>END of Boring</u>	<u>lite gray</u>	<u>Loose</u>	<u>wet</u>		
<u>5</u>			<u>2.0</u>	<u>2</u>	<u>1.1</u>						
<u>6</u>			<u>60%</u>	<u>1</u>							<u>water 4 1/2' to 5'</u>
<u>7</u>											
<u>8</u>											
<u>9</u>											
<u>10</u>											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr.  
 DRILLER: T. Cramer BORING NO.: Lot 201 S SB#4 SHEET 1 OF 1





# FIELD TEST BORING RECORD

PROJECT: Lot 201 S area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 5  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 9/16" ID		3 1/4" ID		9-14-92	3'	Sunny / Mild		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.5	SILT w/ some sand	dk. brown	Loose	Damp Root material		
2		S2 .....	1.8 2.0	3 7		1.2	SAND fine grained w/ trace silt	dk. brown to lite brown	medium dense	Moist to wet (at bottom)		Water 3'
3			90%	7			END of Boring					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr  
 DRILLER: T. Cramer BORING NO.: lot 201 S SB# 5 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 201 S area R/Es Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 6  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-14-92</u>	<u>5'</u>	<u>Sunny/mild</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HNA PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u> <u>A-N</u>				<u>1.3</u>	<u>SILT w/ some sand</u>	<u>dk. brown</u>	<u>Loose</u>	<u>Damp. Root material</u>		
2		<u>S2</u>	<u>1.9</u> <u>2.0</u>	<u>2</u> <u>2</u>		<u>1.2</u>	<u>SAND fine grained</u> <u>w/ trace silt</u>	<u>dk brown to brown</u>	<u>Loose</u>	<u>Moist</u>		
3			<u>95%</u>	<u>5</u>			<u>SAND fine grained</u>	<u>light brown</u>	<u>Loose</u>	<u>Wet</u>		
4			<u>1.3</u>	<u>2</u>		<u>1.1</u>						
5			<u>65%</u>	<u>4</u>			<u>END of Boring</u>					<u>Water 4 1/2' to 5'</u>
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr.  
 DRILLER: T. Cramer BORING NO.: Lot 201 S SB# 6 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 S area Rifles Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-14-92	3	Sunny/mild		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HNu PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
							standing water					
1		S1	1.5				SAND fine grained w/trace silt	brown to gray	Loose	Moist to wet		Water 2' to 3'
2			2.0			1.2				Sample 90% saturated		
3			75%				END of Boring					
4										* Sample collected from spoon w/o augering 1st		
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.  
 BORING NO.: Lot 201 S SB# 7 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Lot 201 S area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 8  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>-WA-</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)					<u>9-15-92</u>	<u>6"</u>	<u>Sunny/mild</u>		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 6" with stainless steel spoon  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)		Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations		SOIL ROCK	ELEVATION
		Type - No. (N = No Samp.)			RQD (Ft. & %)	Pen. Rate			Mu PID (ppm)	Color		
1		<u>51</u>			<u>.9</u>	<u>HUMUS material w/ trace silt</u>	<u>dk. brown to black</u>	<u>Loose</u>	<u>Moist to wet</u>	<u>organic rich material</u>		<u>water 3"</u>
2						<u>END of Boring</u>				<u>Standing water near location of boring</u>		
3												
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: ~~Hester Water~~  
 DRILLER: \_\_\_\_\_

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Lot 201 S SB# 8 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 S area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 9  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9-13-92	5'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HN & PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
							ROCK	Type No. (N = No Samp.)	RQD (FL & %)	Pen. Rate		
		S1				1.4	SILT w/ some sand	gray to brown	Loose	Damp Root/plant material		
1		A-N										
2		S2	1.4 / 2.0	3		1.4	SAND fine grained w/ trace silt	brown to light brown	Loose	Moist orange striations (bottom)		
3			70%	5								
4			1.2 / 2.0	2		1.3	SAND fine grained	brown to light brown to light gray	medium dense	Wet		
5			60%	10			END of Boring					Water 4 1/2 to 5'
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: Lot 201 S SB# 9 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 S area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 10  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3/4" ID</u>		<u>9-13-92</u>	<u>6"</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 6" taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	H <sub>2</sub> O PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
		<u>S1</u>				<u>1.4</u>	<u>SAND fine grained</u>	<u>brown</u>	<u>Loose</u>	<u>Wet</u>		<u>Water 6"</u>
1							<u>END of Boring</u>					
2												
3							<u>* No blows.</u>					
4							<u>* Sample was from 6" cuttings</u>					
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. CRAMER

BAKER REP.: J.E. Zimmerman, Jr  
 BORING NO.: Lot 201 S SB# 10 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 S area  
 S.O. NO.: 19133  
 COORDINATES: EAST: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIFES Camp Lejeune  
 BORING NO.: SB# 11  
 NORTH: \_\_\_\_\_  
 TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9-13-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
		Type No. (N = No Samp.)								RQD (Ft. & %)	Pen. Rate
		S1			SILT w/ some sand	gray	Loose	Damp Root/Plant material trace gravel			
1		A-N									
2		S2	11.4 / 2.0	8 / 11 / 10	SAND fine grained w/ trace silt	light gray to ok gray to brown to yellow brown	medium dense	Moist			
3			70%	11							
4			1.5 / 2.0	3 / 3 / 3	SAND fine grained	yellow brown	Loose	Moist to wet (at bottom) orange striations			
5			75%	4	END of Boring				Water 5'		
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, JR  
 BORING NO.: Lot 201 S SB# 11 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Lot 201 S area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 12  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-13-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	HNU PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
				RQD (Ft. & %)			Pen. Rate				
		S1				1.4	SILT w/ some sand	dk gray	Loose	Damp Root/Plant material	
1		A-N		11			SAND fine grained w/ trace silt	dk. brown	medium dense	Moist	
2				20		1.4					
3				55%			SAND fine grained	dk. brown	dense	Moist to wet (at bottom)	
4		S3		12		1.4					
5				20							Water 5'
6				20							
7				20							
8				25			END OF BORING				
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr  
 BORING NO.: Lot 201 S SB# 12 SHEET 1 OF 1



**D.11**  
**Site 9**

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# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire training Area, RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#1  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG:					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-15-92	9	83° sunny		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface DO = DIDO

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		S1				fine sand, little silt trace fine gravel	gr brn		damp		
2		S2	1.17 2.0	6		fine sand little silt	lt brn	loose	damp		
3			58%	2		fine sand, some silt	lt brn to buff	loose	damp		
4		S3	1.33 2.0	3		fine sand, little silt	buff	loose			
5			67%	3							
6		S4	1.33 2.0	4		fine sand, little silt	buff	loose			
7			67%	4					moist wet		
8		S5	1.67 2.0	3		fine sand, some silt	lt brn				
9			84%	6							
10						End of boring at 9'					

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D.J. Martin  
 DRILLER: C. Chism BORING NO.: ETA SB-1 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire training Area

RIFES Camp Lejeune

S.O. NO.: 19153

BORING NO.: SB#2

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG:					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-15-92</u>	<u>7</u>	<u>83 sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		<u>S1</u>				<u>fine sand, little silt</u>	<u>brown</u>		<u>damp</u>		
2		<u>S2</u>	<u>1.17 / 2.0</u>	<u>4</u>		<u>fine sand, little silt</u>	<u>light brn</u>	<u>loose</u>	<u>damp</u>		
3			<u>54%</u>	<u>3</u>		<u>fine sand some silt</u>					
4		<u>S3</u>	<u>1.67 / 2.0</u>	<u>4</u>		<u>fine sand and silt</u>	<u>brown</u>	<u>loose</u>	<u>damp</u>		
5			<u>84%</u>	<u>4</u>							
6		<u>S4</u>	<u>1.67 / 2.0</u>	<u>4</u>		<u>fine sand and silt</u>	<u>light brown</u>	<u>loose</u>	<u>moist water at 6.25'</u>		
7			<u>84%</u>	<u>5</u>					<u>wet</u>		
8						<u>End of boring at 7'</u>					
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: C. Chism

BAKER REP.: D J Martin  
 BORING NO.: FTA SB-2 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 3  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG:					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 7/8" ID		3 1/4" ID		9-15-92	7	83, sunny	/	/
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to ' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate	PID (ppm)						
1		S1	/	/			0	fine sand and silt, trace organic rich material	black brown	damp,	pine/chemical odor	
2		S2	1.5 2.0	6 4 4			0	fine sand little silt	buff	damp,	pine/chemical odor	
3			7.5 2.0	4 3 4								
4		S3	1.33 2.0	4 3 4			6			damp, pine/chemical odor		
5			6.7 2.0	4 3 4								
6		S4	1.67 2.0	4 3 4			1	fine sand little silt	buff		pine/chemical odor	
7			8.4 2.0	4 3 4						moist wet	water at 6.25	
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: C. Chism BORING NO.: FTA-SB-3 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Site 9 Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 4 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV-Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>9</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface DO = Dido

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
							ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	
1		<u>S1</u>				<u>0</u>	<u>fine sand, little silt,</u>	<u>dark brown to brown</u>		<u>damp</u>	
2		<u>A-N</u>	<u>1.83</u>	<u>4</u>		<u>0</u>	<u>DO.</u>	<u>brown to lt. brown</u>	<u>loose</u>	<u>damp</u>	
3		<u>S2</u>	<u>2.0</u>	<u>3</u>			<u>DO.</u>				
4			<u>1.67</u>	<u>4</u>		<u>0</u>	<u>DO.</u>		<u>loose</u>	<u>damp</u>	
5		<u>S3</u>	<u>2.0</u>	<u>3</u>							
6			<u>1.5</u>	<u>4</u>		<u>0</u>	<u>DO.</u>			<u>damp</u>	
7		<u>S4</u>	<u>2.0</u>	<u>4</u>							
8			<u>75%</u>	<u>4</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>brown</u>	<u>loose</u>	<u>moist</u>	
9		<u>S5</u>	<u>2.0</u>	<u>2</u>			<u>fine sand and silt</u>	<u>gray</u>	<u>medium</u>	<u>water @ 7.75'</u>	
10			<u>75%</u>	<u>5</u>			<u>fine sand, little silt</u>	<u>gray</u>	<u>medium</u>	<u>wet</u>	
				<u>8</u>			<u>End of Boring at 9'</u>				

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: SB-9 (AST) SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19633 BORING NO.: SB# 5 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV-Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 9/8" ID</u>			<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>9</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to ' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u> <u>A-N</u>		<u>8</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>light gray</u>		<u>dry</u>		
2		<u>S2</u>	<u>1.83</u> <u>2.0</u>	<u>10</u> <u>7</u> <u>6</u>		<u>0</u>	<u>fine sand, little silt</u> <u>fine sand, some organic silt</u> <u>fine sand, little silt</u>	<u>brown</u> <u>brown</u> <u>brown</u>	<u>medium</u> <u>dense</u>	<u>damp</u>		
3		<u>S3</u>	<u>1.67</u> <u>2.0</u>	<u>3</u> <u>9</u> <u>2</u> <u>2</u>		<u>0</u>			<u>loose</u>	<u>damp</u>		
4		<u>S4</u>	<u>1.67</u> <u>2.0</u>	<u>3</u> <u>2</u> <u>2</u> <u>2</u>		<u>0</u>	<u>fine sand and silt</u>	<u>orange brown</u> <u>mottled</u>	<u>loose</u>	<u>damp</u> <u>moist</u>		
5		<u>S5</u>	<u>1.33</u> <u>2.0</u>	<u>2</u> <u>5</u> <u>5</u> <u>7</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>brown</u> <u>with orange mottling</u>	<u>loose</u>	<u>moist</u> <u>wet</u>	<u>water @ 7.75'</u>	
6							<u>End of Boring at 9'</u>					

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: C. Chism BORING NO.: SB-5 (AST) SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 6 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV-Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>9</u>	<u>85 overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface DO = D1D0

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
		Type-No. (N = No Samp.)		(Ft. & %)							RQD (Ft. & %)
1		<u>S1</u>				<u>fine gravel, trace fine sand</u>	<u>gray</u>		<u>dry</u>		
		<u>A-W</u>									
2			<u>1.83</u>	<u>7</u>		<u>fine sand, some silt</u>	<u>blk- to gray to brown</u>	<u>medium dense</u>	<u>dry</u>		
			<u>2.0</u>	<u>5</u>		<u>fine sand, little silt</u>			<u>damp</u>		
3		<u>S2</u>		<u>4</u>		<u>Do.</u>					
4			<u>1.58</u>	<u>4</u>			<u>lt. brn to tan</u>	<u>loose</u>	<u>damp</u>		
			<u>2.0</u>	<u>4</u>							
5		<u>S3</u>		<u>4</u>		<u>Do.</u>					
			<u>1.17</u>	<u>5</u>			<u>tan to buff</u>	<u>loose</u>	<u>damp</u>		
			<u>2.0</u>	<u>4</u>							
6		<u>S4</u>		<u>5</u>		<u>Do.</u>					
			<u>1.17</u>	<u>4</u>							
			<u>2.0</u>	<u>4</u>							
7				<u>5</u>					<u>moist</u>		
			<u>1.17</u>	<u>4</u>							
			<u>2.0</u>	<u>4</u>							
8		<u>S5</u>		<u>9</u>		<u>fine sand and silt</u>	<u>brown</u>	<u>medium dense</u>	<u>Water @ 7.75'</u>		
			<u>1.5</u>	<u>9</u>							
			<u>2.0</u>	<u>11</u>							
9			<u>75%</u>								
10						<u>End of Boring at 9'</u>					

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: C. Chism BORING NO.: SB6 (AST) SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 7 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>7</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface DO = D1000

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u>				<u>0.5</u>	<u>fine sand, some silt</u>	<u>tan</u>		<u>dry</u>		
2		<u>A-N</u>	<u>1.25</u> <u>2.0</u>	<u>5</u> <u>4</u> <u>4</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>loose</u>	<u>damp</u>		
3		<u>S2</u>					<u>DO.</u>	<u>buff</u>		<u>damp</u>		
4		<u>S3</u>	<u>1.25</u> <u>2.0</u>	<u>5</u> <u>4</u> <u>3</u>		<u>0</u>		<u>buff</u>	<u>loose</u>			
5							<u>fine sand, little silt</u>	<u>buff</u>		<u>moist</u>		
6		<u>S4</u>	<u>1.67</u> <u>2.0</u>	<u>2</u> <u>4</u> <u>6</u>		<u>0</u>			<u>loose</u>	<u>water at 6.25'</u>		
7							<u>silt and fine sand</u>	<u>orange brown</u>		<u>wet</u>		
8							<u>End of Boring at 7'</u>					
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: C. Chism

BAKER REP.: D. S. Martin  
 BORING NO.: SB7 (AST) SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Fire Training Area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# B  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG:					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-15-92</u>	<u>7</u>	<u>83° sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u> <u>A-N</u>				<u>0</u>	<u>fine sand, little silt</u>	<u>gr. brn</u>		<u>dry</u>		
2		<u>S2</u>	<u>1.83</u> <u>2.0</u>	<u>5</u> <u>6</u>		<u>0</u>	<u>fine sand, little silt</u> <u>fine sand and silt</u> <u>fine sand little silt</u>	<u>lt. gry-brn</u> <u>lt. gry</u>	<u>medium</u> <u>dense</u>	<u>damp</u>		
3		<u>S3</u>	<u>1.67</u> <u>2.0</u>	<u>3</u> <u>3</u> <u>2</u>		<u>0</u>		<u>buff</u>	<u>loose</u>	<u>damp</u>		
4			<u>8.9%</u> <u>2.0</u>	<u>4</u> <u>3</u> <u>4</u> <u>5</u>		<u>1</u>	<u>fine sand, little silt</u>	<u>buff</u> <u>to</u> <u>lt. brn</u>	<u>loose</u>	<u>moist</u> <u>wet</u>		<u>water at 5.5'</u>
5		<u>S4</u>	<u>100%</u>				<u>End of boring at 7'</u>					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: C. Chism

BAKER REP.: D.J. Martin  
 BORING NO.: FSA SB B SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 9 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/16" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>7</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface DO = D1DDO

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S1</u>				0	<u>fine sand, little silt</u>			<u>damp</u>	
2		<u>A-N</u>		<u>3</u>			<u>fine sand, some silt, trace clay in coarse to fine gravel sized particulates</u>	<u>brown black gray mottled</u>	<u>loose</u>	<u>damp, color varies indifferentially</u>	
3		<u>S2</u>		<u>4</u>			<u>FILL</u>				
4		<u>S3</u>		<u>9</u>		0	<u>DO, FILL</u>		<u>medium dense</u>	<u>damp</u>	
5				<u>8</u>							
6		<u>S4</u>		<u>1</u>		8	<u>DO, FILL</u>		<u>very loose</u>	<u>moist</u>	
7				<u>1 1/2"</u>						<u>wet</u>	
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: C. Chism

BAKER REP.: D.J. Martin  
 BORING NO.: SB-9 (AST) SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#10 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>4-16-92</u>	<u>9</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S1</u>					<u>fine sand, little silt</u>	<u>light brown</u>		<u>damp</u>	
2		<u>A-N</u>		<u>4</u>			<u>DO. Fill</u>	<u>light brown to black to lt. grey</u>	<u>medium dense</u>	<u>damp, note black staining</u> <u>6 inches from tip</u>	
3		<u>S2</u>		<u>4</u>			<u>DO. Fill</u>	<u>lt. brn w/ black mottling</u>	<u>medium</u>	<u>damp</u>	
4		<u>S3</u>		<u>3</u>			<u>silt and fine sand brown</u>   <u>fine sand, little silt, tan</u>			<u>damp</u>	
5		<u>S4</u>		<u>4</u>			<u>fine sand, little silt</u>				
6		<u>S5</u>		<u>4</u>			<u>Fill</u>				
7				<u>4</u>			<u>sand, little silt</u>	<u>tan to buff</u>			
8											
9							<u>End of Boring at 9'</u>				
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: C. Chism

BAKER REP.: D. J. Martin  
 BORING NO.: SB-10 (AST) SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB-11 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>7</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface DO = DIDDO

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
		Type-No. (N = No Samp.)								RQD (FL & %)	Pen. Rate
1		<u>S1</u>			<u>fine sand, some silt</u>	<u>medium gray</u>		<u>dry</u>			
2		<u>A-N</u>	<u>1.17</u>	<u>6</u>	<u>fine sand little silt</u>	<u>medium gray to brown to lt. brn</u>	<u>medium dense</u>	<u>damp</u>			
3		<u>S2</u>	<u>2.0</u>	<u>7</u>							
4		<u>S3</u>	<u>1.33</u>	<u>4</u>	<u>Do.</u>	<u>Tan</u>	<u>loose</u>	<u>damp</u>			
5			<u>2.0</u>	<u>4</u>							
6		<u>S4</u>	<u>1.75</u>	<u>4</u>	<u>fine sand, little silt</u>	<u>light gray</u>	<u>loose</u>	<u>moist</u>	<u>water at 6.0'</u>		
7			<u>2.0</u>	<u>5</u>				<u>wet</u>			
8				<u>6</u>	<u>End of Boring at 7'</u>						
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: R. Chism BORING NO.: SB-11 (AST) SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Fire Training Area

RIFES Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 12

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-15-92</u>	<u>7'</u>	<u>83 sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1				0	fine sand, little silt, trace fine gravel	brown		damp		
2		S2	<u>1.58</u> <u>2.0</u>	<u>2</u> <u>7</u> <u>4</u> <u>4</u>		0	<del>Do. except no gravel</del> fine sand and silt	lt brn buff	medium dense			
3			<u>79%</u>				fine sand little silt	buff	loose	damp		
4		S3	<u>1.33</u> <u>2.0</u>	<u>3</u> <u>3</u> <u>3</u> <u>5</u>		0	fine sand little silt	lt. brn	medium dense	damp		
5			<u>67%</u>				fine sand, little silt					
6		S4	<u>1.5</u> <u>2.0</u>	<u>3</u> <u>5</u> <u>7</u> <u>8</u>		1	fine sand, little silt			damp		
7			<u>75%</u>				End of boring at 7'			wet		water at 6.5'
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
DRILLER: \_\_\_\_\_

BAKER REP.: D. J. Martin  
BORING NO.: FTA 12 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 13 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>7</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u> <u>A-N</u>				<u>0</u>	<u>fine sand, little silt</u>	<u>brown</u>		<u>damp</u>		
2		<u>S2</u>	<u>1.17</u> <u>2.0</u>	<u>5</u> <u>7</u> <u>6</u> <u>6</u>		<u>0</u>	<u>fine sand and silt, trace clay</u> <u>FILL</u> <u>fine sand, little silt</u>	<u>brn, blk</u> <u>gr</u> <u>mottled</u> <u>color</u>		<u>damp, chemical odor</u>		
3		<u>S3</u>	<u>1.5</u> <u>2.0</u>	<u>4</u> <u>2</u> <u>1</u> <u>2</u>		<u>0</u>	<u>DO. except no hardpan</u>			<u>note, trace coarse sand to</u> <u>fine gravel sized black</u> <u>hard pan. particulates</u> <u>chemical odor</u>		
4		<u>S4</u>	<u>75%</u>				<u>DO.</u>			<u>moist</u> <u>chemical odor</u>		
5		<u>S4</u>	<u>1.25</u> <u>2.0</u>	<u>4</u> <u>3</u> <u>3</u> <u>5</u>		<u>0</u>	<u>FILL</u> <u>fine sand, little silt</u>	<u>brn with</u> <u>black</u> <u>staining</u>		<u>wet</u> <u>Water at 6.25'</u>		
6							<u>End of Boring at</u> <u>7'</u>					
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: Dev Martin  
 DRILLER: C. Chism BORING NO.: SB 13 (AST) SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 14 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>7</u>	<u>Overcast 85°</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		<u>S1</u>				<u>silt and fine sand</u>	<u>gray brown</u>		<u>dry</u>		
2		<u>S2</u>	<u>1.17</u> <u>2.0</u>	<u>4</u> <u>4</u> <u>2</u> <u>3</u>		<u>fine sand, little silt</u>	<u>dk gray to light brown</u>	<u>loose</u>	<u>damp chemical odor</u>		
3						<u>DO.</u>					
4		<u>S3</u>	<u>1.83</u> <u>2.0</u>	<u>2</u> <u>3</u> <u>4</u> <u>4</u>			<u>gray to brown</u>	<u>loose</u>	<u>damp, chemical odor</u>		
5											
6		<u>S4</u>	<u>2.0</u> <u>2.0</u> <u>100%</u>	<u>3</u> <u>3</u> <u>4</u> <u>5</u>		<u>fine sand, little silt</u>	<u>lt. brn to buff</u>	<u>loose</u>	<u>moist</u> <u>no chemical odor</u> <u>water at 6.5'</u>		
7											
8						<u>End of Boring at 7'</u>					
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: P. Chism BORING NO.: SB 14 (AST) SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 15 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/16" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>7</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type- No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		<u>S1</u>				<u>0.2</u>	<u>fine sand and silt</u>	<u>light brown</u>		<u>dry</u>	
2		<u>A-N</u>	<u>1.67</u>	<u>9</u>			<u>fine sand, some silt</u>	<u>black dry</u>	<u>medium</u>	<u>damp</u>	
3		<u>S2</u>	<u>2.0</u>	<u>11</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>buff</u>	<u>dense</u>		
4				<u>6</u>			<u>silt and fine sand</u>	<u>blk brn</u>	<u>stiff</u>		
5		<u>S3</u>	<u>1.58</u>	<u>5</u>		<u>0.1</u>	<u>fine sand little silt</u>	<u>light brn</u>	<u>loose</u>	<u>damp</u>	
6			<u>2.0</u>	<u>5</u>							
7		<u>S4</u>	<u>1.83</u>	<u>4</u>		<u>0.1</u>	<u>fine sand, little silt</u>	<u>tan with orange mottling</u>	<u>loose</u>	<u>moist</u>	
8			<u>2.0</u>	<u>4</u>						<u>Water at 6.75</u>	
9				<u>4</u>						<u>wet</u>	
10							<u>End of Boring at 7'</u>				

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: C. Chism BORING NO.: SB15 (AST) SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 16 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV-Mobile B-53</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/16" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>7</u>	<u>85° overcast</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface DO = DIDDO

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION	
		Type No. (N = No Samp.)									(Ft. & %)
1		<u>S1</u> <u>A-1</u>			<u>fine sand, little silt, trace fine gravel</u>	<u>black brown</u>		<u>damp</u>			
2		<u>S2</u>	<u>1.83</u> <u>2.0</u>	<u>9</u> <u>6</u> <u>4</u> <u>4</u>	<u>fine sand, little silt</u>	<u>dark brown to light brown</u>	<u>loose</u>	<u>damp</u>			
3					<u>DO</u>	<u>tan</u>	<u>loose</u>	<u>damp</u>			
4		<u>S3</u>	<u>1.67</u> <u>2.0</u>	<u>4</u> <u>4</u> <u>3</u> <u>3</u>							
5					<u>fine sand, little silt</u>	<u>buff</u>	<u>loose</u>				
6		<u>S4</u>	<u>1.83</u> <u>2.0</u>	<u>4</u> <u>5</u> <u>5</u> <u>5</u>	<u>fine sand and silt</u>	<u>brown</u>		<u>moist water at 6.5</u> <u>wet</u>			
7					<u>End of Boring at 7.0'</u>						
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D.J. Martin  
 DRILLER: C. Chism BORING NO.: 16 (AST) SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Fire Training Area, RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB#17  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 7/8" ID</u>			<u>3 1/4" ID</u>		<u>9-15-92</u>	<u>7</u>	<u>83° sunny</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface DO = D100

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
		Type - No. (N = No Samp.)									(Ft. & %)
1		S1			0	fine sand, little silt	brown	damp			
2		S2	<u>1.33 / 2.0</u>	<u>7 5 6 6</u>		0	fine sand, little silt	lt. brown	medium dense	damp	
3			<u>67%</u>								
4		S3	<u>1.67 / 2.0</u>	<u>7 5 3 5</u>		0	Do.		loose		
5			<u>84%</u>							moist	
6		S4	<u>2.0 / 2.0</u>	<u>4 4 5 6</u>		0	fine sand, little silt	lt. brown	loose	water at 6'	
7			<u>100%</u>							wet	
8											
9											
10											
										End of boring at 7'	

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D J Martin  
 DRILLER: C. Chism BORING NO.: Fire station SB 17 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 18 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile B-61</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-22-92</u>	<u>6'</u>	<u>88° hazy</u>	<u>/</u>	<u>/</u>
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 6' taking composite sample from 0-6'

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		A-N					<u>fine sand and silt</u> <u>fine sand, little silt</u>	<u>lt. gry</u> <u>lt. brn</u>		<u>dry</u>	
2							<u>fine sand little silt</u>	<u>tan</u>		<u>damp</u>	
3		A-N									
4							<u>fine sand, little silt</u>				
5		A-N								<u>moist</u>	
6							<u>End of Boring at 6ft.</u>				
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: C. Chism BORING NO.: SB 18 AST SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Site 9, Fire Training Area RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB # 19 (AST)  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Mobile B-61</u>								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	<u>1 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-22-92</u>	<u>8'</u>	<u>BB hazy</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 8' taking continuous split spoon samples  
Borehole grouted to surface DO = DIDDO

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL / ROCK	Sample ID / Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		S1	<u>1.5 / 2.0</u>	<u>3</u>		<u>fine sand, little silt, trace clay</u>	<u>brown with yellow &amp; black mottling</u>	<u>medium dense</u>	<u>dry</u>		
2			<u>75%</u>	<u>6</u>		<u>FILL</u>					
3		S2	<u>1.5 / 2.0</u>	<u>9</u>		<u>fine sand, little silt, trace clay in fine gravel sized particulates, charred wood</u>	<u>black brn</u>	<u>medium dense</u>	<u>damp</u>		
4			<u>75%</u>	<u>6</u>		<u>FILL</u>					
5		S3		<u>3</u>		<u>DO, trace fine gravel</u>	<u>black brown</u>	<u>loose</u>	<u>damp</u>		
6				<u>2</u>		<u>FILL</u>					
7		S4	<u>1.5 / 2.0</u>	<u>2</u>		<u>fine sand, little silt</u>	<u>black</u>		<u>moist</u>	<u>water at 6.5'</u>	
8			<u>75%</u>	<u>8</u>		<u>trace fine gravel, charred wood.</u>	<u>brown to tan to yellow brn</u>	<u>loose</u>	<u>wet</u>		
9						<u>End of boring at 8'</u>					
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: D. J. Martin  
 DRILLER: \_\_\_\_\_ BORING NO.: SB 19 AST SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 18  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HANX PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1				1.4	SILT w/ little sand	buff	loose	Dry Root/plant material. Photo gravel		
2		A-N	1.5	5			SAND fine grained w/ trace silt	brown to lite brown	medium dense	Damp		
3			75%	8								
4		S3	1.3	3			SAND fine grained	brown to lite brown	medium dense	Damp to Moist orange streaks		
5			2.0	6		1.4						
6			65%	6								
7			.9	3				lite brown	medium dense	Wet		Water 6'
8			2.0	8		1.4						
9			45%	11			END of Boring					
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr.  
 DRILLER: T. Cramer BORING NO.: Site 9 TPO SB# 18 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO

RIFS Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB#19

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
					Type No. (N = No Samp.)	RQD (FL & %)	Pen. Rate	MAX PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color		
1		S1				1.4	SILT w/ little sand	blue to gray	Loose	Dry Root material		
2		A-N	1.1 / 2.0	8			SAND fine grained w/ trace silt	brown to lite brown	medium dense	Damp		
3			55%	8								
4		S3	1.1 / 2.0	2		1.4	SAND fine grained	lite brown	loose to medium dense	Damp to Moist	orange streaks	
5			55%	5								
6			1.5 / 2.0	3		1.4		lite brown	medium dense	Net orange streaks		Water 6'
7			75%	12			END of Boring					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
DRILLER: T. CRAWLEY

BAKER REP.: J.E. Zimmerman, Jr.  
BORING NO.: Site 9 TPO SB#19 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RIFS Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 20  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
PICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION								
DEPTH	SOIL ROCK	Sample ID Type - No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	H <sub>2</sub> O PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION			
				RQD (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations					
		S1				112	SILT w/ little sand	brown	Loose	Dry gravel					
1		A-N	16/20	7			SAND fine grained w/ trace silt	yellow brown to gray to brown	medium dense to loose	Damp					
2			80%	5		112									
3				4											
4		S3	20/20	4		112	SAND fine grained	lite brown	Loose	Moist orange striations					
5			100%	2											
6			17/20	5				lite brown	medium dense	Wet orange (at bottom) staining					
7			85%	5		112									
							END of Boring								
8															
9															
10															

Water 6 1/2 to 7'

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, JR.  
 DRILLER: T. Cramer BORING NO.: Site 9 TPO SB# 20 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 21  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 9/8" ID		3/4" ID		9-16-92	9'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
BIT	30"								
WICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	K <sub>u</sub> PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
		-				-	NO RECOVERY	-	-	-		
1		A-N	1.3	7			SAND fine grained ultrace silt	brown	medium dense	Damp		
2		S2	2.0	12		1.2						
3			65%	15		1.2						
4			1.5	4			SAND fine grained	brown	medium dense	Damp		
5			2.0	8		1.2						
6			75%	5			gray to yellow brown	medium dense	Moist orange striations			
7			1.0	3								
8		S5	2.0	16		1.2	light gray to brown	medium dense	Wet (at bottom)			
9			50%	22								
10			1.0	5			END of Boring					Water 9'

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J. E. Zimmerman, Jr.  
 DRILLER: T. Cramer BORING NO.: Site 9 TPO SB# 21 SHEET 1 OF 1



# FIELD TEST BORING RECORD



PROJECT: SITE 9 TPO AREA RI/FS CAMP LEJEUNE  
 CTO NO.: 19133 BORING NO.: SB 22  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: \_\_\_\_\_

RIG: <u>B-47</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 7/8"</u>		<u>3 1/4"</u>		<u>9-22-98</u>	<u>11</u>	<u>Hot</u>	<u>8</u>	
LENGTH	<u>2.0</u>		<u>5.0</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140 #</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: SOIL BORING ADVANCED USING 3 1/4" AUGERS.  
NO SAMPLE COLLECTED 0 TO 6"

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
		Type-No. (N = No Samp.)									
1		AN				FILL MATERIAL SAND AND GRAVEL					
2		S1	<u>1.5</u> <u>2</u>	<u>9</u> <u>18</u> <u>19</u>	<u>1.4</u>	SAND-FINE	<u>LT. GRAY</u>	<u>MED. DENSE</u>	<u>DAMP</u>		
3			<u>75%</u>	<u>9</u>							
4		S2	<u>1.6</u> <u>2</u>	<u>3</u> <u>4</u> <u>5</u>	<u>1.8</u>	SAND-FINE	<u>BROWN</u>	<u>LOOSE</u>	<u>DAMP</u>		
5			<u>79%</u>	<u>4</u>							
6		S3	<u>1.25</u> <u>2</u>	<u>2</u> <u>5</u> <u>6</u>	<u>1.6</u>	SAND-FINE	<u>YELLOW-BROWN</u>	<u>LOOSE</u>	<u>DAMP. MOTTLED ORANGE</u>		
7			<u>63%</u>	<u>5</u>							
8		S4	<u>1.75</u> <u>2</u>	<u>3</u> <u>6</u> <u>8</u>	<u>2.2</u>	SAND-FINE TRACE SILT	<u>BROWN</u>	<u>LOOSE</u>	<u>MOIST. MOTTLED ORANGE</u>		
9			<u>83%</u>	<u>10</u>		WATER 13" SAND-FINE TRACE SILT	<u>GRAY</u>	<u>LOOSE</u>	<u>WET. MOTTLED ORANGE</u>		
10		S5	<u>1.5</u> <u>2</u>	<u>2</u> <u>9</u>	<u>1.7</u>	SAND-FINE TRACE SILT	<u>GRAY</u>	<u>LOOSE</u>	<u>WET</u>		

DRILLING CO.: HARDIN-HUBER BAKER REP.: KENNETH A. TUA  
 DRILLER: TOM GRAMER BORING NO.: SB 22 SHEET 1 OF 2



# FIELD TEST BORING RECORD

PROJECT: SITE 9 TPO AREA RIFFS CAMP LEJEUNE  
 S.O. NO.: 19133 BORING NO.: SB 22

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
11				10							
12				10			END OF BORING				
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

DRILLING CO.: HARDIN - HUBER  
 DRILLER: TOM CRAMER

BAKER REP.: KENNETH A. TUA  
 BORING NO.: SB 22 SHEET 2 OF 2



# FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 23  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

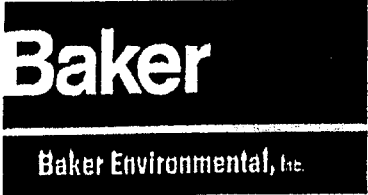
RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-16-92	7'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
TICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MAX PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				1.6	SILT w/ little sand	buff	Loose	Dry Root/Plant material Trace gravel		
2			1.3 2.0	3 7			SAND fine grained w/ trace silt	brown	medium dense	Damp		
3			65%	6		1.5						
4		S3	1.1 2.0	3 5		1.4	SAND fine grained	lt gray to brown	medium dense to loose	Damp to Moist		
5			55%	4								
6			1.5 2.0	2 4		1.4		lt gray	loose	Wet		Water 6'
7			75%	6			END of Boring					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Site 9 TPO SB# 23 SHEET 1 OF 1



# FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 24  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: #19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	2'		3 1/4" ID		9-16-92	9'	Sunny/Warm		
TYPE	STD		HSA						
HAMMER WT.	140								
WELL	30"								
STICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MNL PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		A-N		15			SAND fine grained					
2		S2	1.7/20	14		1.2	ultrace silt	brown	medium dense	Damp		
3			85%	14			SAND fine grained					
4			1.3/20	11		1.2		gray to dk brown to lite brown	medium dense	Damp		
5			65%	4								
6		S4	1.8/20	8		1.2		lite brown	medium dense	Moist orange striations		
7			90%	5								
8			1.5/20	6		1.2		lite brown	medium dense	Wet orange striations		
9			75%	5								
10							END of Boring					Water 9'

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J. E. Zimmerman, Jr.  
 DRILLER: T. Cramer BORING NO.: Site 9 TPO SB#24 SHEET 1 OF 1

# FIELD TEST BORING RECORD

PROJECT: SITE 9 TPO AREA RI/FS CAMP LEJEUNE  
 S.O. NO.: 19133 BORING NO.: SB 25

DRILL RECORD							VISUAL DESCRIPTION					SOIL ROCK	ELEVATION
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations			
		ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
11	S	S		4 3									
12							END OF BORING						
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

DRILLING CO.: HARDIN - HUBER  
 DRILLER: TOM CRAMER

BAKER REP.: KENNETH A. TUA  
 BORING NO.: SB 25 SHEET 2 OF 2

# FIELD TEST BORING RECORD



PROJECT: SITE 9 TPO AREA RI/FS CAMP LEJEUNE  
 CTO NO.: 19133 BORING NO.: SB 25  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: \_\_\_\_\_

RIG: <u>B-47</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8"</u>		<u>4 1/4"</u>		<u>9-22-92</u>	<u>11</u>	<u>Hot</u>	<u>7.5</u>	
LENGTH	<u>2.0</u>		<u>5.0</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140 #</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: SOIL BORING ADVANCED USING 4 1/4" AUGERS  
NO SAMPLE COLLECTED 0 TO 6"

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type-No. (N = No Samp.)	ROD (Ft & %)	Pen. Rate	PID	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		AN				FILL MATERIAL SAND AND GRAVEL					
2		S1	<u>1.83 / 2</u>	7		SAND-FINE TRACE SILT	DARK BROWN	LOOSE	DAMP		
3			<u>92 / 10</u>	5	1.2	3" SAND-FINE TRACE SILT	GRAY				
4		S2	<u>1.3 / 2</u>	2		4" SAND-FINE SAND-FINE	GRAY BROWN	LOOSE	DAMP		
5			<u>66 / 10</u>	4	1.3						
6		S3	<u>1.66 / 2</u>	2		6" SAND-FINE SAND-FINE	GRAY BROWN	LOOSE	MOIST, MOTTLED ORANGE		
7			<u>83 / 10</u>	4	1.3						
8		S4	<u>1.75 / 2</u>	3		4 1/2" SAND-FINE WATER	ORANGE WHITE		MOIST WET		
9			<u>87 / 10</u>	6	1.3						
10		S5	<u>.75 / 2</u>	7		SAND-FINE TRACE SILT	WHITE	LOOSE	WET		
			<u>38 / 10</u>	7	1.3						

DRILLING CO.: HARDIN - HUBER BAKER REP.: KENNETH A. TUA  
 DRILLER: TOM CRAMER BORING NO.: SB 25 SHEET 1 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 26  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ROCK	30"								
BACK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION		
	ROCK	Type No. (N = No Samp.)								(Ft. & %)	RQD (Ft. & %)
		S1			SILT w/ little sand	brown	loose	Dry to Damp Root material, gravel			
1		A-N	1.5	7	SAND fine grained w/ trace silt	gray to brown	medium dense	Damp			
2			2.0	6					1.4		
3			75%	4	SAND fine grained	brown	loose	Moist			
4		S3	1.1	3					1.4		
5			2.0	4		light gray	medium dense	Wet			
6			1.5	2					1.4		
7			2.0	6					Water 6'		
8			7	8	END of Boring						
9			25%								
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. CRAWLEY

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Site 9 TPO SB# 26 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO

RIFES Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB# 27

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF PVC CASING: \_\_\_\_\_

RIG: #19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-16-92	9'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
PICK UP									

REMARKS: Advanced boring to 9' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION						
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION			
				RQD (FL & %)	Pen. Rate						Mn, Ni, PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color
		-				No Recovery							
1		A-N	1.5	6		SAND fine grained w/ trace silt	gray to dk gray to yellow orange	medium dense	Damp				
2		S2	2.0	14	1.7								
3			75%	20									
4			1.4	3		SAND fine grained	brown to dk gray to lite gray to brown	medium dense	Damp				
5			2.0	17	1.6								
6		S4	1.3	2		SAND fine grained	yellow brown	Loose	Moist - orange streaks				
7			2.0	3	1.5								
8			65%	4									
9			1.4	3		SAND fine grained	brown	medium dense	Wet				
10			2.0	9	1.5								
			70%	12		END of Boring				Water 8'			

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J. E. Zimmerman, Jr.

DRILLER: T. Cramer

BORING NO.: Site 9 TPO SB# 27 SHEET 1 OF 1



# FIELD TEST BORING RECORD

**Baker**

Baker Environmental, Inc.

PROJECT: SITE 9 TPO AREA RIFFS CAMP LEJEUNE  
 CTO NO.: 19133 BORING NO.: SB-88  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: \_\_\_\_\_

RIG: <u>B-47</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8</u>		<u>3 1/4"</u>		<u>9-22-92</u>	<u>9</u>	<u>Hot</u>	<u>8</u>	
LENGTH	<u>2.0</u>		<u>5.0</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140 #</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: SOIL BORING ADVANCED TO WATER TABLE USING 3 1/4" AUGERS  
NO SAMPLE COLLECTED 0-6"

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate	PID	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1			<u>A-N</u>				<u>FILL MATERIAL SAND &amp; GRAVEL</u>					
2		<u>S1</u>	<u>1.5/2</u>	<u>6</u>			<u>SAND-FINE SOME GRAVEL</u>	<u>DARK BROWN</u>	<u>MED DENSE</u>	<u>DRY</u>		
3			<u>75%</u>	<u>9</u>		<u>1.0</u>						
4		<u>S2</u>	<u>1.3/2</u>	<u>13</u>			<u>SAND-FINE</u>	<u>DARK BROWN</u>	<u>MED DENSE</u>	<u>DRY</u>		
5			<u>66%</u>	<u>7</u>			<u>4" SAND-FINE</u>	<u>LT. GRAY</u>		<u>DRY</u>		
6		<u>S3</u>	<u>1.4/2</u>	<u>12</u>			<u>SAND-FINE</u>	<u>LT. BROWN TO WHITE</u>	<u>LOOSE</u>	<u>DAMP. MOTTLED BROWN</u>		
7			<u>71%</u>	<u>10</u>								
8		<u>S4</u>	<u>1.4/2</u>	<u>5</u>			<u>SAND-FINE LITTLE SILT</u>	<u>WHITE</u>	<u>LOOSE</u>	<u>WET</u>		
9			<u>71%</u>	<u>6</u>		<u>1.05</u>	<u>WATER</u>					
10				<u>8</u>			<u>4" SAND-FINE LITTLE SILT</u>	<u>ORANGE</u>	<u>LOOSE</u>	<u>WET</u>		
				<u>9</u>			<u>END OF BORING</u>					

DRILLING CO.: HARDIN-HUBER BAKER REP.: KENNETH A. TLA  
 DRILLER: TOM CRAMER BORING NO.: SB-28 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO  
 S.O. NO.: 19133  
 COORDINATES: EAST: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIFES Camp Lejeune  
 BORING NO.: SB# 29  
 NORTH: \_\_\_\_\_  
 TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	2'		3 1/4" ID		9-16-92	7'	Sunny/Warm		
TYPE	STD		HSA						
HAMMER WT.	140								
REL	30"								
PICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		S1 A-N				SILT w/ little sand	light to gray	Loose	Dry Root/Plant material, gravel		
2			1.4 2.0	6 7		SAND fine grained w/ trace silt	dk. gray to lite gray	medium dense	Damp		
3			70%	5	1.7						
4		S3	1.5 2.0	2 3		SAND fine grained	brown to lite brown	Loose	Moist		
5			75%	5	2.1 to 6.7						
6			1.4 2.0	2 6			lite brown to gray	medium dense	Wet		Water 6'
7			70%	11	1.6						
8						END of Boring					
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Site 9 TPO SB# 29 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO R/ES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 30  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HAJx PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1				1.2	SILT w/ little sand	brown	Loose	Damp Trace gravel	
2		A-N		1.2 9			SAND fine grained w/ trace silt	dk. gray to lite gray	medium dense	Damp	
3				2.0 12		1.2					
4		S3		60% 10			SAND fine grained	dk brown to brown to yellow brown	medium dense	Moist	
5				1.5 5		1.2					
6				2.0 6							
7				75% 8		1.5		yellow brown	medium dense to loose	Wet orange stain	Water 6'
8				1.6 2			END of Boring				
9				2.0 3							
10				60% 9							

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Site 9 TPO SB# 30 SHEET 1 OF 1

# FIELD TEST BORING RECORD



PROJECT: SITE 9 TPO AREA RE/FS CAMP LEJEUNE  
 CTO NO.: 19133 BORING NO.: SB 31  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8"</u>		<u>3 1/4"</u>		<u>9-22-92</u>	<u>7</u>	<u>Partly Sun. Hgt</u>	<u>7</u>	
LENGTH	<u>2.0</u>		<u>5.0</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140 #</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: SOIL BORING ADVANCED TO WATER TABLE USING 3 1/4" AUGERS  
NO SAMPLE COLLECTED 0 TO 6"

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type- No. (N = No Samp.)									
1		A-N				FILL MATERIAL SAND AND GRAVEL					
2		S1	<u>1.3</u> <u>2</u>	<u>12</u>		SAND-FINE TRACE SILT	<u>DARK BROWN</u>	<u>MED DENSE</u>	<u>DRY</u>		
3			<u>67%</u>	<u>8</u>							
4		S2	<u>1.42</u> <u>8</u>	<u>3</u>		SAND-FINE TRACE SILT	<u>LT. BROWN</u>	<u>LOOSE</u>	<u>DAMP, MOTTLED YELLOW</u>		
5			<u>71%</u>	<u>3</u>							
6		S3	<u>1.5</u> <u>2</u>	<u>3</u>		SAND-F TRACE SILT	<u>LT. BROWN</u>	<u>LOOSE</u>	<u>DAMP TO WET YELLOW STREAKS</u>		
7			<u>75%</u>	<u>2</u>							
8											
9											
10											

DRILLING CO.: HARDIN - HUBER BAKER REP.: KENNETH A. TUA  
 DRILLER: TOM CRAMER BORING NO.: SB 31 SHEET 1 OF 1

# FIELD TEST BORING RECORD

**Baker**

Baker Environmental, Inc.

PROJECT: SITE 9 TPO AREA RIIFS CAMP LEJEUNE  
 CTO NO.: 19133 BORING NO.: SB 32  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8"</u>		<u>4 1/4"</u>		<u>9-22-92</u>	<u>7</u>	<u>Hot</u>	<u>7</u>	
LENGTH	<u>2.0</u>		<u>5.0</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140 #</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: SOIL BORING ADVANCED TO WATER TABLE USING 3/4" AUGERS  
NO SAMPLE COLLECTED 0 TO 6"

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type - No. (N = No Samp.)		(Ft. & %)	RQD (Ft. & %)	Pen. Rate	pid	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		<u>A-N</u>					<u>FILL MATERIAL SAND AND GRAVEL</u>					
2		<u>S1</u>	<u>1.67</u> <u>2</u>	<u>15</u> <u>20</u> <u>16</u>		<u>1.5</u>	<u>SAND-FINE</u>	<u>DARK GRAY</u>	<u>MED DENSE</u>	<u>DRY, DARK STREAKS</u>		
3			<u>84%</u>	<u>17</u>			<u>SAND-FINE SOME SILT</u>	<u>LT. GRAY</u>	<u>LOOSE</u>	<u>DRY, DARK STREAKS</u>		
4		<u>S2</u>	<u>1.5</u> <u>2</u>	<u>2</u> <u>6</u> <u>8</u>		<u>1.5</u>						
5			<u>75%</u>	<u>9</u>								
6		<u>S3</u>	<u>1.42</u> <u>2</u>	<u>2</u> <u>3</u> <u>3</u>		<u>1.6</u>	<u>2" SAND-FINE TRACE SILT</u> <u>3" SAND-FINE SOME CLAY</u> <u>6" SAND-FINE LITTLE CLAY</u>	<u>BROWN GRAY</u> <u>BROWN</u>	<u>LOOSE</u>	<u>DAMP TO MOIST.</u>		
7			<u>71%</u>	<u>3</u>			<u>WATER</u>					
8		<u>S4</u>	<u>.66</u> <u>2</u>	<u>1</u> <u>1</u> <u>1</u>		<u>1.7</u>	<u>SAND-FINE AND CLAY</u>	<u>LT. GRAY</u>	<u>LOOSE</u>	<u>WET.</u>		
9			<u>34%</u>	<u>1</u>								
10							<u>END OF BORING</u>					

DRILLING CO.: HARDIN-HUBER  
 DRILLER: TOM CRAMER

BAKER REP.: BAKER REP  
 BORING NO.: SB 32

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 33  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ELL	30"								
BACK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
					RQD (Ft. & %)	Pen. Rate						
		S1				1.3	SILT w/ little sand	light to gray	Loose	Dry Root/Plant material, gravel		
1		A-N	1.4	5			SAND fine grained w/ trace silt	gray to light gray	medium dense	Damp gray bands		
2			2.0	11		1.4						
3			70%	8								
4		S3	1.4	3			SAND fine grained	brown to light brown	medium dense to Loose	Moist		
5			2.0	4		1.4						
6			70%	5								
7			1.7	2								
8			2.0	4		1.5						Water 6'
9			85%	6								
10							END of Boring					

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. CRAWLEY

BAKER REP.: J.E. Zimmerman, JR.  
 BORING NO.: Site 9 TPO SB# 33 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 34  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 7/8" ID		3/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
BACK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION	
	ROCK	Type No. (N = No Samp.)									(Ft. & %)
1		S1			SILT w/ 1/4 to 1/2 sand	brown	Loose	Dry to Damp Trace gravel			
2		A-N	1.5 2.0	8 6	SAND fine grained w/ trace silt	brown	medium dense	Damp occasional striations			
3			75%	6							
4			1.4 2.0	2 3	SAND fine grained	brown	Loose	Moist			
5			70%	2							
6		S4	1.4 2.0	2 2		brown	Loose	Wet		Water 6'	
7			70%	1	END of Boring						
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr.  
 DRILLER: T. Cramer BORING NO.: Site 9 TPO SB# 34 SHEET 1 OF 1

# FIELD TEST BORING RECORD

**Baker**

Baker Environmental, Inc.

PROJECT: SITE 9 TPO AREA RI/FS CAMP LEJEUNE

CTO NO.: 19133

BORING NO.: SB 35

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF STEEL CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 3/8"</u>		<u>3 1/4" ID</u>		<u>9-22-92</u>	<u>9</u>	<u>Hot</u>	<u>7</u>	
LENGTH	<u>2.0</u>		<u>5.0</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140 #</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: SOIL BORING ADVANCED TO WATER TABLE USING 3 1/4" AUGER  
0-6" SAMPLE WAS COLLECTED FROM AUGER CUTTINGS.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	ELEVATION
				RQD (Ft. & %)			Pen. Rate					
1		<u>S1</u>	<u>-</u>	<u>-</u>		<u>1.9</u>	<u>SAND-FINE</u>	<u>BROWN</u>	<u>-</u>	<u>DRY</u>		
		<u>A-N</u>										
2			<u>1.6</u>	<u>4</u>			<u>SAND-FINE LITTLE SILT</u>	<u>BROWN</u>	<u>LOOSE</u>	<u>DRY, MOTTLED ORANGE</u>		
		<u>S2</u>	<u>2</u>	<u>5</u>		<u>2.0</u>						
3			<u>79%</u>	<u>3</u>								
		<u>S3</u>										
4			<u>1.3</u>	<u>2</u>			<u>SAND-FINE TRACE SILT</u>	<u>BROWN</u>	<u>VERY LOOSE</u>	<u>DAMP, MOTTLED ORANGE</u>		
		<u>S3</u>	<u>2</u>	<u>1</u>		<u>2.0</u>						
5			<u>67%</u>	<u>1</u>								
		<u>S4</u>										
6			<u>1.67</u>	<u>3</u>			<u>SAND-FINE</u>	<u>GRAY</u>	<u>LOOSE</u>	<u>DAMP, BLACK STREAKS</u>		
		<u>S4</u>	<u>2</u>	<u>3</u>		<u>3.1</u>						
7			<u>83%</u>	<u>6</u>								
		<u>S5</u>										
8			<u>1.5</u>	<u>4</u>			<u>WATER SAND-F TRACE SILT</u>	<u>BROWN</u>	<u>LOOSE</u>	<u>WET BLACK STREAKS</u>		
		<u>S5</u>	<u>2</u>	<u>6</u>		<u>2.1</u>						
9			<u>75%</u>	<u>5</u>								
		<u>S5</u>										
10							<u>END OF BORING</u>					

DRILLING CO.: HARDIN-HUBER

BAKER REP.: KENNETH A. TUA

DRILLER: TOM CRAMER

BORING NO.: SB 35

SHEET 1 OF 1



# FIELD TEST BORING RECORD

**Baker**

Baker Environmental, Inc.

PROJECT: SITE 9 TPO AREA RI/FS CAMP LEJEUNE

CTO NO.: 19133

BORING NO.: SB 36

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF STEEL CASING: \_\_\_\_\_

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	<u>1 3/8"</u>		<u>3 1/4"</u>		<u>9-22-72</u>	<u>7</u>	<u>PART SUN, HOT</u>	<u>7</u>	
LENGTH	<u>2.0</u>		<u>5.0</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: SOIL BORING ADVANCED TO WATER TABLE USING 3 1/4" AUGERS  
0-6" SAMPLE COLLECTED FROM AUGER CUTTINGS

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class	Lab. M.C. %	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
		Type - No. (N = No Samp.)									(Ft. & %)
1		<u>S1</u> <u>A-N</u>	-		<u>1.7</u>	<u>SAND-FINE</u>	<u>BROWN</u>	<u>-</u>	<u>DRY</u>		
2		<u>S2</u>	<u>1.08</u> <u>2</u>	<u>4</u> <u>3</u>	<u>1.8</u>	<u>SAND-FINE</u>	<u>LT. BROWN</u>	<u>LOOSE</u>	<u>DRY</u>		
3		<u>S3</u>	<u>54%</u> <u>2</u>	<u>3</u> <u>4</u>	<u>1.8</u>	<u>SAND-FINE</u>	<u>LT. GRAY</u>	<u>LOOS</u>	<u>DAMP. DARK STREAKS</u>		
4		<u>S4</u>	<u>1.3</u> <u>2</u>	<u>2</u> <u>6</u>	<u>1.7</u>	<u>SAND-FINE TRACE SILT</u>	<u>GRAY</u>	<u>VERY LOOSE</u>	<u>WET, YELLOW STREAKS</u>		
5			<u>67%</u> <u>2</u>	<u>2</u> <u>2</u>							
6			<u>1.3</u> <u>2</u>	<u>2</u> <u>2</u>							
7			<u>67%</u> <u>2</u>	<u>2</u>		<u>WATER AT 7'</u>					
8											
9											
10											

DRILLING CO.: HARDIN-HUBER

BAKER REP.: KENNETH TUA

DRILLER: TOM CRAMER

BORING NO.: SB 36

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 37  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19								TOP OF CASING WATER DEPTH (FT)	
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER		TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	SPT Blows Per 0.5'	Lab. Class.	HAX PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
		Type- No. (N = No Samp.)									
		S1			1.7	SILT w/ little sand	gray	loose	Dry gravel		
1		A-N									
2			13 20		1.7	SAND fine grained w/ trace silt	dk gray to gray	medium dense	Damp		
3											
4			12 20		1.7	SAND fine grained	brown	medium dense	Damp to moist		
5											
6		S4 .....	15 20		1.9		brown	medium dense	Wet orange streaks		Water 6'
7			3 10			END of Boring					
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr.  
 DRILLER: T. Cramer BORING NO.: Site 9 TPO SB# 37 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RIFES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB\*38  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ALL	30"								
TICK UP									

MARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION	
				RQD (Ft. & %)	Pen. Rate						MAX PID (ppm)
		S1				SILT w/ little sand	base to gray	Loose	Dry Root/plant material, gravel		
1		A-N	1.2	24		SAND fine grained w/ trace silt	dk. gray to lite brown	dense	Damp		
2			20	19	1.6						
3			60%	14							
4			1.2	8		SAND fine grained	dk brown to brown	medium dense	Damp		
5			2.0	6	1.7						
6		S4	.9	7		SAND fine grained	dk brown to brown	medium dense	Moist to Wet		
7		.....	2.0	8	2.1						
8			45%	10		END of Boring					
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Site 9 TPO SB\*38 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 9 Lot TPO RILES Camp Lejeune  
 S.O. NO.: 19133 BORING NO.: SB# 39  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

RIG: # 19					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 9/8" ID		3 1/4" ID		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	30"								
PICK UP									

REMARKS: Advanced boring to 7' taking continuous split spoon samples  
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type- No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				RQD (Ft. & %)	Pen. Rate						
1		S1 A-N				1.6	SILT w/ little sand	buff to gray	Loose	Dry Root/Plant material, gravel	
2			1.2 / 2.0	14		1.6	SAND fine grained w/ trace silt	dk. gray to gray to brown	medium dense	Damp	
3			60%	8							
4		S3	1.2 / 2.0	11		1.6	SAND fine grained	brown	medium dense	Moist	
5			60%	8							
6			1.3 / 2.0	4		1.7		lite brown		Wet orange streaks	Water 6'
7			65%	7			END of Boring				
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.  
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.  
 BORING NO.: Site 9 TPO SB#39 SHEET 1 OF 1

**D.12**  
**Test Pits**

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# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES  
S.O. NO.: 19133 TEST PIT NO.: TR 1952 A  
COORDINATES: EAST \_\_\_\_\_ NORTH: \_\_\_\_\_  
SURFACE ELEVATION: \_\_\_\_\_ DATE: 29 SEPT. 92  
WEATHER: P. CLOUDY 65 OF

REMARKS: SOIL APPEARED UNDISTURBED NO DEBRIS OR EVIDENCE OF BURIED MATERIAL. NO SAMPLE TAKEN

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			UNDISTURBED SOIL DISTINCT HORIZONS VISIBLE NO DEBRIS PRESENT	
2	NA	1.0		
3			UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
4	NA	1.0		
5			UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
6	NA	1.0		
7			UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
8	NA	1.0		
9			UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
10				
11				
12	NA	1.0		
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.  
EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN  
TEST PIT NO.: TR 1952 A SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1952 B

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: SOIL APPEARED UNDISTURBED. NO DEBRIS OR EVIDENCE OF BURIED MATERIAL. NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm		Visual Description	Elevation
		Field			
1	NA	0.75		UNDISTURBED SOIL (ROOT GROWTH) DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
2					
3	NA	0.75		UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
4					
5	NA	0.75		UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
6					
7	NA	0.60		UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
8					
9					
10					
11					
12	NA	0.60		UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
13					
14					
15					

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1952 B

SHEET 1 OF 1

# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1952 C

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: SOIL APPEARED SOMEWHAT UNDISTURBED. NO DEBRIS OR EVIDENCE OF BURIED MATERIAL HOWEVER, OVA READINGS WERE ELEVATED WITH DEPTH.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			UNDISTURBED SOIL TOP 0-6" CONTAINED PINE NEEDLES MIXED WITH SAND NO DEBRIS PRESENT	
2	NA	1.0		
3			UNDISTURBED SOIL NO DEBRIS PRESENT	
4	NA	1.0		
5	6 TR 1952 01 DUP		SOIL APPEARED DARK AND SOMEWHAT SATURATED. OVA REACTED TO DARK BLACK COLORED SOIL (MAY HAVE BEEN PEAT). ENVIRONMENTAL AND DUPLICATE SAMPLE OBTAINED.	
6		10.0		
7			SOIL WAS SIMILAR TO THAT IN THE 4-6' RANGE. NO DEBRIS PRESENT. GREY - BLACK - BROWN.	
8	NA	10.0		
9	6 TR 1952 05		SOIL COLOR RANGE - GREY - BLACK - BROWN NO DEBRIS PRESENT	
10				
11				
12		1.0		
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1952 C

SHEET 1 OF 1



# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1952 C (2)

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT 92

WEATHER: P. CLOUDY 65 °F

REMARKS: SOIL APPEARED UNDISTURBED. NO DEBRIS OR EVIDENCE OF BURIED MATERIAL. OVA READINGS WERE ELEVATED WITH DEPTH.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			UNDISTURBED SOIL TOP 0-6" CONTAINED PINE NEEDLES MIXED WITH SAND.	
2	NA	I.D	NO DEBRIS PRESENT.	
3			UNDISTURBED SOIL	
4	NA	-	NO DEBRIS PRESENT	
5			UNDISTURBED SOIL	
6	NA	✓	NO DEBRIS PRESENT	
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1952 C (2)

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJUENE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1956 A

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 28 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: COMM WIRE, SCRAP METAL AND UNKNOWN SOLID MATERIAL PRESENT. NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SAND WITH TRACE AMOUNTS OF METAL SANDY SOILS	
2	NA	1.0		
3			COMMUNICATION WIRE, WOOD, AND SCRAP METAL. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS. NO DISTINCT SOIL HORIZONS.	
4	NA	1.0		
5			COMMUNICATION WIRE, WOOD, SCRAP METAL. ALSO LAYER OF BLUE/AQUA COLORED SOLID MATERIAL. ORANGE RUST COLOR - APPEARED ACIDIC.	
6	NA	1.0		
7			SCRAP METAL AND TRACES OF WOOD PRESENT. NO DISTINCT SOIL HORIZONS.	
8	NA	1.0		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1956 A

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJENNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1956 B

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT. 92

WEATHER: P. SUNNY 49°F

REMARKS: SOIL APPEARED UNDISTURBED NO DEBRIS OR EVIDENCE OF BURIED MATERIAL.  
NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			UNDISTURBED SOIL (ROOTS PRESENT) NO DEBRIS PRESENT	
2	NA	1.0		
3			UNDISTURBED SOIL NO DEBRIS PRESENT	
4	NA			
5			UNDISTURBED SOIL NO DEBRIS PRESENT	
6	NA			
7			UNDISTURBED SOIL NO DEBRIS PRESENT	
8	NA			
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1956 B

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1956 C

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT. 92

WEATHER: P, SUNNY 49 OF

REMARKS: SOIL APPEARED UNDISTURBED. NO DEBRIS OR EVIDENCE OF BURIED MATERIAL.  
NO SAMPLE TAKEN

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			UNDISTURBED SOIL NO DEBRIS PRESENT	
2	NA	1.0		
3			UNDISTURBED SOIL NO DEBRIS PRESENT	
4	NA	1.0		
5			UNDISTURBED SOIL NO DEBRIS PRESENT	
6	NA	1.0		
7			UNDISTURBED SOIL NO DEBRIS PRESENT	
8	NA	1.0		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1956 C

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1960 A

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 27 SEPT. 92

WEATHER: SUNNY 85°F

REMARKS: SCRAP METAL, REBAR, WOOD, AND COMMUNICATION WIRE ENCOUNTERED - NO SAMPLE TAKEN

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SAND WITH TRACE AMOUNTS OF METAL MINIMUM AMOUNT OF DEBRIS IN THE 0-2' RANGE	
2	NA	0.9		
3			SCRAP METAL, REBAR, WOOD, COMMUNICATION WIRE. LARGE PIECE OF REBAR AND COM WIRE REMOVED. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
4	NA	1.0		
5			SCRAP METAL, REBAR, WOOD, COMMUNICATION WIRE. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
6	NA	1.0		
7	NA	—	LARGE PIECE OF METAL ENCOUNTERED - PREVENTED EXCAVATION FROM FURTHER THAN 6-7' DEPTH.	
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1960 A

SHEET 1 OF 1

# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1960 B

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT. 92

WEATHER: P. SUNNY 49°F

REMARKS: A LOT OF SCRAP METAL ENCOUNTERED - NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SAND WITH TRACE AMOUNTS OF METAL - RUST SPOTS FROM OXIDATION PRESENT. NO SIGNIFICANT AMOUNT OF DEBRIS.	
2	NA	1.0		
3			SCRAP METAL ENCOUNTERED - LARGE PIECE OF THIN SHEET METAL WITH INSULATION SUSPECTED TO BE FROM A TANK WALL OR BOILER UNIT.	
4	NA	1.0		
5			A LOT OF MISCELLANEOUS SCRAP METAL ENCOUNTERED - CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
6	NA	1.0		
7			A LOT OF MISCELLANEOUS SCRAP METAL ENCOUNTERED - CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS. TEST PIT WALLS BEGAN COLLAPSING.	
8	NA	1.0		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1960 B

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1960 C

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT. 92

WEATHER: P. SUNNY 49°F

REMARKS: SOIL APPEARED UNDISTURBED NO DEBRIS OR EVIDENCE OF BURIED MATERIAL.  
NO SAMPLE TAKEN

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			UNDISTURBED SOIL (ROOTS ENCOUNTERED) NO DEBRIS PRESENT	
2	NA	1.0		
3			UNDISTURBED SOIL NO DEBRIS PRESENT	
4	NA	1.0		
5			UNDISTURBED SOIL NO DEBRIS PRESENT	
6	NA	1.0		
7			UNDISTURBED SOIL NO DEBRIS PRESENT	
8	NA	1.0		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1960 C

SHEET 1 OF 1

# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1960 D

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT. 92

WEATHER: P. SUNNY 49°F

REMARKS: SOIL APPEARED UNDISTURBED - NO DEBRIS OR EVIDENCE OF BURIED MATERIAL,  
NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			UNDISTURBED SOILS (ROOTS ENCOUNTERED) NO DEBRIS PRESENT	
2	NA	1.0		
3			UNDISTURBED SOIL NO DEBRIS PRESENT	
4	NA	1.0		
5			UNDISTURBED SOIL NO DEBRIS PRESENT	
6	NA	1.0		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1960 D

SHEET 1 OF 1



# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1964A

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 28 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: A LOT OF MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED. SAMPLE OBTAINED OF BLUE/AQUA MATERIAL AND BOTTOM OF PIT.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm		Visual Description	Elevation
			Field		
1				SOIL APPEARED CLEAN - SAND NO DEBRIS PRESENT	
2	NA		0.05		
3				COMMUNICATION WIRE, SCRAP METAL, WOOD A LOT OF MIXED DEBRIS. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
4	NA		0.02		
5	6 TR 1964 02			COMMUNICATION WIRE, SCRAP METAL, WOOD, AND 95 MM CASINGS ENCOUNTERED. ALSO BLUE/ AQUA COLORED SOLID MATERIAL ENCOUNTERED. LAYERED ~ 4" THICK.	
6			0.09		
7				COMMUNICATION WIRE, SCRAP METAL, WOOD AND SOME 95 MM CASINGS ENCOUNTERED, CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
8	NA		0.09		
9	6 TR 1964 04			COMMUNICATION WIRE, SCRAP METAL, WOOD ENCOUNTERED. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
10			0.09		
11					
12					
13					
14					
15					

CONTRACTOR: GEO-CENTERS, INC.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: TR 1964A

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1964 A (2)

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 28 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: A LOT OF MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1	NA	-	SOIL APPEARED CLEAN - SAND NO DEBRIS PRESENT	
2				
3	NA	-	COMMUNICATION WIRE, SCRAP METAL, WOOD A LOT OF MIXED DEBRIS.	
4				
5	NA	-	COMMUNICATION WIRE, SCRAP METAL WOOD, 95MM CASINGS - BLUE AQUA COLORED MATERIAL	
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1964 A (2)

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR 1964 B

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P, CLOUDY 65°F

REMARKS: SOIL APPEARED UNDISTURBED. NO DEBRIS OR EVIDENCE OF BURIED MATERIAL.  
NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm		Visual Description	Elevation
			Field		
1				UNDISTURBED SOIL NO DEBRIS PRESENT	
2	NA		1.0		
3				UNDISTURBED SOIL NO DEBRIS PRESENT	
4	NA		1.0		
5				UNDISTURBED SOIL NO DEBRIS PRESENT	
6	NA		1.0		
7				UNDISTURBED NO DEBRIS PRESENT	
8					
9					
10	NA		1.0		
11					
12					
13					
14					
15					

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1964 B

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1964 C

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: SOIL APPEARED UNDISTURBED NO DEBRIS OR EVIDENCE OF BURIED MATERIAL. NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SAND - UNDISTURBED SOIL (ROOT GROWTH) NO DEBRIS PRESENT	
2	NA	0.75		
3			UNDISTURBED SOIL (SMALL AMOUNT OF ROOT GROWTH)	
4	NA	0.75	BURIED TREE STUMP ROCKS INTERMIXED WITH SOIL. NO DEBRIS PRESENT	
5			UNDISTURBED SOIL NO EVIDENCE OF DEBRIS	
6	NA	0.75		
7			UNDISTURBED SOIL NO DEBRIS PRESENT	
8	NA	0.75		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1964 C

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1970 A

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 27 SEPT. 92

WEATHER: SUNNY 85°F

REMARKS: A LOT OF MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED. NO SAMPLE OBTAINED.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SOIL APPEARS CLEAN NO DEBRIS PRESENT	
2	NA	0.7		
3			SOIL APPEARS CLEAN NO DEBRIS PRESENT - TRACE AMOUNTS OF SCRAP VISIBLE.	
4	NA	0.7		
5			SCRAP METAL, WOOD, NETTING, COMMUNICATION WIRE, AND PIPING. MATERIAL CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
6	NA	0.6		
7			SCRAP METAL, WOOD, COMMUNICATION WIRE. MATERIAL CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
8	NA	0.6		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1970 A

SHEET 1 OF 1

# Baker

Baker Environmental, Inc

## TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFCS

S.O. NO.: 19133

TEST PIT NO.: TR 1970 B

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 27 SEPT. 92

WEATHER: SUNNY 85 °F

REMARKS: MILITARY/CONSTRUCTION DEBRIS PRESENT - EVIDENCE -OF BURNING ENCOUNTERED. NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			COMMUNICATION WIRE, TRACE AMOUNTS OF SCRAP METAL. CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS.	
2	NA	1.9		
3			COMMUNICATION WIRE, SCRAP METAL. EVIDENCE OF BURNING ENCOUNTERED - CHARRED WOOD. MATERIAL ENCOUNTERED CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS.	
4	NA	1.9		
5			SUSPECTED COMMUNICATION WIRE - BURNED/ RUSTED MATERIAL - EVIDENCE OF POSSIBLE OPEN PIT BURNING - CHARRED WIRE WITH TRACE AMOUNTS OF SCRAP METAL.	
6	NA	1.8		
7			SUSPECTED COMMUNICATION WIRE - BURNED OR CHARRED. UNIFORM AREA OF BURNING PRESENT.	
8	NA	1.9		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1970 B

SHEET 1 OF 1

**Baker**

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FSS.O. NO.: 19133TEST PIT NO.: TR 1970C

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 27 SEPT 92WEATHER: SUNNY 85 °FREMARKS: MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED. ENVIRONMENTAL SAMPLE OBTAINED.**DEFINITIONS**

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SOIL APPEARS CLEAN - VERY COMPACT AT 1.0' NO DEBRIS PRESENT	
2	NA	2.70		
3			SOIL APPEARS RELATIVELY CLEAN TRACE AMOUNTS OF METAL ENCOUNTERED BELOW THE 3.0' MARK. CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS.	
4	NA	3.0		
5	6 TR 1970 02	1.90	BURIED DRUM (REMAINS) ENCOUNTERED, ALONG WITH SCRAP METAL. CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS	
6				
7	6 TR 1970 03	1.90	SCRAP METAL ENCOUNTERED - CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.BAKER REP.: KENNETH J. MARTINEQUIPMENT: CASE 580 BACKHOETEST PIT NO.: TR 1970CSHEET 1 OF 1

# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1970 C (2)

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 27 SEPT. 92

WEATHER: SUNNY 85 °F

REMARKS: MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED - NO SAMPLE TAKEN. SECOND TEST PIT ALONG TR 1970 C

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SOIL APPEARS CLEAN - VERY COMPACT AT 1.0' PIPING AND FLATTENED SCRAP METAL ENCOUNTERED CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
2	NA	NA		
3			SCRAP METAL, WOOD, AND CANVAS TARP ENCOUNTERED, CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
4	NA	NA		
5			WOOD, TRACE AMOUNTS OF METAL, REBARB AND ROPE, CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
6	NA	NA		
7			WOOD, SCRAP METAL, REBARB AND ROPE, CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
8	NA	NA		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1970 C (2)

SHEET 1 OF 1



# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1970 D

COORDINATES: EAST

NORTH:

SURFACE ELEVATION:

DATE: 27 SEPT 92

WEATHER: SUNNY 85 °F

REMARKS: MILITARY / CONSTRUCTION DEBRIS ENCOUNTERED. ALSO ENCOUNTERED BLUE/AQUA SOLID MATERIAL. SAMPLES OBTAINED FROM TEST PIT.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SAND SMALL AMOUNT OF SCRAP METAL. CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
2	NA	1.90		
3			SCRAP METAL AND MISCELLANEOUS DEBRIS. CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
4	NA	2.10		
5	6 TR 1970 01		6-8" LAYER OF BLUE/AQUA COLORED MATERIAL ENCOUNTERED. SUSPECTED TO BE BATTERY AID.	
6		2.10		
7			BURNED RESIDUE VISIBLE. METAL AND WOOD PRESENT. CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
8	NA	1.90		
9	6 TR 1970 05		SCRAP METAL AND MISCELLANEOUS DEBRIS PRESENT. CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
10				
11				
12		2.0		
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1970 D

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR 1970 D (2)

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 27 SEPT. 92

WEATHER: SUNNY 85 °F

REMARKS: MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED. SECOND TEST PIT ALONG TR1970 D.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SAND SMALL AMOUNT OF SCRAP METAL. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS	
2			SCRAP METAL AND MISCELLANEOUS DEBRIS CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS	
3				
4				
5			6-8" LAYER OF BLUE/AQUA COLORED MATERIAL ENCOUNTERED. SUSPECTED TO BE BATTERY ACID.	
6				
7			BURNED RESIDUE VISIBLE METAL AND WOOD PRESENT. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
8				
9			SCRAP METAL AND MISCELLANEOUS DEBRIS PRESENT. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR 1970 D (2)

SHEET 1 OF 1

**Baker**

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FSS.O. NO.: 19133TEST PIT NO.: TR 1970 E

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 27 SEPT. 92WEATHER: SUNNY 85°FREMARKS: MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED. NO SAMPLES OBTAINED.**DEFINITIONS**

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SCRAP METAL, REBAR, MISCELLANEOUS DEBRIS. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
2	NA	2.2		
3			SCRAP METAL, REBAR, MISCELLANEOUS DEBRIS. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS. RUST COLORED SANDS.	
4	NA	2.2		
5			SCRAP METAL, REBAR, MISCELLANEOUS DEBRIS. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS. RUST COLORED SANDS.	
6	NA	2.2		
7			SOIL IS BROWN WITH METALLIC COLOR IN SOME AREAS. SCRAP METAL AND MISCELLANEOUS DEBRIS PRESENT. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
8	NA	2.2		
9			COMMUNICATION WIRE, REBAR, SPRINGS, SCRAP METAL. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS. AT ~ 12' WATER BEGAN POOLING.	
10				
11				
12	NA	2.2		
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.BAKER REP.: KENNETH J. MARTINEQUIPMENT: CASE 580 BACKHOETEST PIT NO.: TR 1970 ESHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: GS 1960 A

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED. ALSO ENCOUNTERED WHITE SOLID AND BROWN OILY MATERIAL. SAMPLES OBTAINED.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			COMMUNICATION WIRE, SCRAP METAL, 95-105 MM CARTRIDGES (SPENT). CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS.	
2	NA	1.0	-	
3	6 GS 1960		COMMUNICATION WIRE, SCRAP METAL, 95-105 MM CARTRIDGES (SPENT) WHITE SOLID POWDER AND OILY BROWN VISCOUS LIQUID. CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS.	
4	01	1.0		
5	6 GS 1960		COMMUNICATION WIRE, SCRAP METAL. EXCAVATION TERMINATED AT ~ 5' POINT DUE TO THE AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	
6	02	1.0		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: GS 1960 A

SHEET 1 OF 1

# Baker

Baker Environmental, Inc

## TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: GS 1960 A (2)

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P. CLOUDY 65 OF

REMARKS: MILITARY / CONSTRUCTION DEBRIS ENCOUNTERED. SECOND TEST PIT ALONG GS 1960 A.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			COMMUNICATION WIRE, SCRAP METAL 95-105 MM CARTRIDGES (SPENT). CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
2	NA	NA		
3			COMMUNICATION WIRE, SCRAP METAL, 95-105MM CARTRIDGES (SPENT) WHITE POWDER ENCOUNTERED. CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
4	NA	NA		
5			COMMUNICATION WIRE, SCRAP METAL. EXCAVATION TERMINATED DUE TO THE AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	
6	NA	NA		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: GS 1960 A (2)

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE TR/FS

S.O. NO.: 19133

TEST PIT NO.: GS 1960 B

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: A LOT OF MILITARY / CONSTRUCTION DEBRIS ENCOUNTERED. SAMPLE OBTAINED.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm		Visual Description	Elevation
			Field		
1				COMMUNICATION WIRE, SCRAP METAL, BATTERY PACKS, CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
2	NA	1.0		-	
3	G GS 1960 01			COMMUNICATION WIRE, SCRAP METAL, BATTERY PACKS, BLUE/AQUA COLORED SOLID, SOIL NEAR BATTERY PACKS APPEARED SOMEWHAT SATURATED, MAY HAVE BEEN BATTERY ACID. CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
4		1.0			
5				COMMUNICATION WIRE - TEST PIT WAS TERMINATED AT ~ 5' DUE TO THE AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	
6	NA	1.0			
7					
8					
9					
10					
11					
12					
13					
14					
15					

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: GS 1960 B

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE

S.O. NO.: 19133

TEST PIT NO.: GS 1960 B (2)

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: A LOT OF MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED. NO SAMPLE OBTAINED.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			COMMUNICATION WIRE, SCRAP METAL, BATTERY PACKS CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
2	NA	NA		
3			COMMUNICATION WIRE, SCRAP METAL, BATTERY PACKS, BLUE/AQUA COLORED SOLID. SOIL NEAR BATTERY PACKS APPEARED SOMEWHAT SATURATED. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
4	NA	NA		
5			COMMUNICATION WIRE - TEST PIT AGAIN TERMINATED AT ~ 5' DUE TO THE AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	
6	NA	NA		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: GS 1960 B (2)

SHEET 1 OF 1

# Baker

# TEST PIT RECORD

Baker Environmental, Inc.

PROJECT: CAMP LEJEUNE

S.O. NO.: 19133

TEST PIT NO.: GS 1960 C

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: \_\_\_\_\_

REMARKS: SOIL APPEARED UNDISTURBED. NO DEBRIS OR EVIDENCE OF BURIED MATERIAL  
NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			SAND UNDISTURBED SOILS (ROOTS PRESENT) NO DEBRIS PRESENT	
2	NA	1.0		
3			UNDISTURBED SOIL NO DEBRIS PRESENT	
4	NA	1.0		
5			UNDISTURBED SOIL NO DEBRIS PRESENT	
6	NA	1.0		
7			UNDISTURBED SOIL NO DEBRIS PRESENT	
8	NA	1.0		
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: GS 1960 C

SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: GS 1960 D

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 29 SEPT. 92

WEATHER: P. CLOUDY 65°F

REMARKS: COMMUNICATION WIRE 1-5 GALLON CONTAINERS (BUCKETS) RUSTED THROUGH.  
SAMPLE OBTAINED OF LIQUID/SLUDGE.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm		Visual Description	Elevation
			Field		
1				COMMUNICATION WIRE, SCRAP METAL AND 5-GALLON BUCKETS CLASSIFIED AS MILITARY DEBRIS.	
2	NA	1.0		-	
3	6 GS 1960 02		1.0	1-5 GALLON CONTAINERS CONTAINING LIQUIDS (MAY HAVE BEEN WATER.) SAMPLE OBTAINED OF LIQUID/SLUDGE. CONTAINERS IN POOR CONDITION.	
4	6 GS 1960 03		1.0	1-5-GALLON CONTAINERS (BUCKETS), COMMUNICATION WIRE	
5				SAMPLE OBTAINED AT BOTTOM OF TRENCH	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

CONTRACTOR: GEO-CENTERS

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: GS 1960 D

SHEET 1 OF 1



# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFFS  
 S.O. NO.: 19133 TEST PIT NO.: GS 1960 E  
 COORDINATES: EAST \_\_\_\_\_ NORTH: \_\_\_\_\_  
 SURFACE ELEVATION: \_\_\_\_\_ DATE: 30 SEPT 92  
 WEATHER: P. CLOUDY 65°F

REMARKS: MILITARY / CONSTRUCTION DEBRIS ENCOUNTERED. NO SAMPLE TAKEN.

<u>DEFINITIONS</u>				
HNU = Photo Ionization Detector Reading OVA = Organic Vapor Analyzer Reading				
Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			COMMUNICATION WIRE AND ROOTS ENCOUNTERED.	
2	NA	1.0	-	
3			BURIED 5-GALLON (BUCKET) CONTAINER 3.0 PPM ON OVA. COMMUNICATION WIRE SCRAP METAL ENCOUNTERED.	
4	NA	1.0		
5			SOIL APPEARS UNDISTURBED AT 5' MARK.	
6	NA	2.0	SMALL AMOUNT OF COMMUNICATION WIRE ENCOUNTERED.	
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC. BAKER REP.: KENNETH J. MARTIN  
 EQUIPMENT: CASE 580 BACKHOE TEST PIT NO.: GS 1960 E SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: GS 1964 A

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT 92

WEATHER: P. SUNNY 49°F

REMARKS: SOIL APPEARED UNDISTURBED NO DEBRIS OR EVIDENCE OF BURIED MATERIAL. NO SAMPLE TAKEN

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1	NA	—	ROOTS ENCOUNTERED. SOIL APPEARS CLEAN. NO DEBRIS PRESENT	
2				
3	NA	—	UNDISTURBED SOIL NO DEBRIS PRESENT	
4				
5	NA	—	UNDISTURBED SOIL NO DEBRIS PRESENT	
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: GS 1964 A

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TR0001

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT 92

WEATHER: P, SUNNY 49°F

REMARKS: SOIL APPEARED UNDISTURBED V. LITTLE SURFACE DEBRIS. NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			<u>SURFACE SCRAP / DEBRIS. VERY LITTLE SCRAP INTERMIXED WITH SOIL</u>	
2	<u>NA</u>	<u>1.5</u>		
3			<u>SOIL APPEARED SATURATED MAY BE H<sub>2</sub>O TABLE.</u>	
4	<u>NA</u>	<u>1.5</u>		
5			<u>NO DEBRIS PRESENT</u>	
6	<u>NA</u>	<u>—</u>		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR0001

SHEET 1 OF 1

# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: TR0002

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT 92

WEATHER: P. SUNNY 49°F

REMARKS: SOIL APPEARED UNDISTURBED V. LITTLE SURFACE DEBRIS. NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			<u>SURFACE SCRAP / DEBRIS. VERY LITTLE SCRAP. INTERMIXED WITH SOIL.</u>	
2	<u>NA</u>	<u>1.0</u>		
3			<u>SOIL APPEARED UNDISTURBED. NO DEBRIS PRESENT.</u>	
4	<u>NA</u>	<u>1.0</u>		
5			<u>SOIL APPEARED UNDISTURBED. NO DEBRIS PRESENT.</u>	
6	<u>NA</u>	<u>1.0</u>		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR0002

SHEET 1 OF 1



# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES  
 S.O. NO.: 19133 TEST PIT NO.: TR0003  
 COORDINATES: EAST \_\_\_\_\_ NORTH: \_\_\_\_\_  
 SURFACE ELEVATION: \_\_\_\_\_ DATE: 30 SEPT. 92  
 WEATHER: P. SUNNY 49°F

REMARKS: SOIL APPEARED UNDISTURBED V. LITTLE SCRAP INTERMIXED WITH SOIL.  
NO SAMPLE TAKEN.

**DEFINITIONS**

HNU = Photo Ionization Detector Reading  
 OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			NO DEBRIS PRESENT. SOIL APPEARED UNDISTURBED.	
2	NA	ND		
3			NO DEBRIS PRESENT. SOIL APPEARED UNDISTURBED.	
4	NA	ND		
5			NO DEBRIS PRESENT SOIL APPEARED UNDISTURBED. ELEVATED READING RELATED TO HIGH ORGANIC CONTENT OF SOIL.	
6	NA	ND		
7				
8				
9				
10				
11				
12				
13				
14				
15				

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFLS

S.O. NO.: 19133

TEST PIT NO.: TR0004

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 30 SEPT. 92

WEATHER: P. SUNNY 49°F

REMARKS: SOIL APPEARED UNDISTURBED CONTAINED WOOD IN A "POCKET". NO SAMPLE TAKEN.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1	NA	1.0	SURFACE SCRAP / DEBRIS. VERY LITTLE SCRAP INTERMIXED WITH SOIL.	
2				
3	NA	10	WOOD DARK BLACK SOIL - SUSPECTED TO BE HIGH IN ORGANIC MATTER - EXPLAINS ELEVATED OVA READING.	
4				
5	NA	10	WOOD DEBRIS (BOARDS) SOIL APPEARED TO BE CLEAN. SUSPECTED TO BE HIGH IN ORGANIC MATTER.	
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR0004

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RIFES

S.O. NO.: 19133

TEST PIT NO.: TRO005

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 1 OCTOBER 92

WEATHER: P. SUNNY 40°F

REMARKS: SOIL APPEARED UNDISTURBED V. LITTLE SURFACE DEBRIS PRESENT.  
NO SAMPLE TAKEN

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1			NO DEBRIS PRESENT IN 0-2' INTERVAL SOME SURFACE SCRAP - V. LITTLE.	
2	NA	1.0		
3			NO DEBRIS PRESENT STRUCTURAL INTEGRITY OF WALL APPEARS TO BE GOOD.	
4	NA	1.0		
5			NO DEBRIS PRESENT SOIL APPEARS UNDISTURBED.	
6	NA	-		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TRO005

SHEET 1 OF 1



# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: 6-TPI

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 3 MARCH 93

WEATHER: OVERCAST 50°F

REMARKS: FILL AREA EVIDENT BY DISTINCT ELEVATION CHANGES, COMMUNICATION WIRE PRESENT.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm		Visual Description	Elevation
		Field			
1	NA	HNU	< 1	UNDISTURBED SOIL HOMOGENIUS SOIL HORIZON NO DEBRIS PRESENT	
2					
3	NA	HNU	< 1	SEVERAL YARDS OF COMMUNICATION WIRE, PREVENTED BACKHOE FROM DEPTHS GREATER THAN 4-4.5'. NOTE: A SAMPLE WAS NOT TAKEN FROM THIS TEST PIT DUE TO NO EVIDENCE OF SOIL STAINING AND LOW HNU READINGS.	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

CONTRACTOR: GEO CENTERS

BAKER REP.: PETE MONDAY

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: 6-TPI

SHEET 1 OF

# Baker

Baker Environmental, Inc

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: 6-TP2

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 3 MARCH 93

WEATHER: OVERCAST 50°F

REMARKS: FILL AREA EVIDENT BY DISTINCT ELEVATION CHANGES, COMMUNICATION WIRE PRESENT.

### DEFINITIONS

HNU = Photo Ionization Detector Reading  
OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm		Visual Description	Elevation
		Field			
1	NA	HNU		UNDISTURBED SOIL HOMOGENIUS SOIL HORIZON NO DEBRIS PRESENT	
2		<1			
3	6-TP2-02	8-10		TAN COLORED SOIL WITH BLACK SPECKS INTERMIXED, COMMUNICATION WIRE PRESENT. SAMPLE 6-TP2-02 WAS TAKEN OF THE TAN/BLACK MATERIAL.	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

CONTRACTOR: GEO CENTERS

BAKER REP.: PETE MONDAY

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: 6-TP2

SHEET 1 OF \_\_\_\_\_

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMP LEJEUNE RI/FS.

S.O. NO.: 19133

TEST PIT NO.: 6-TP3

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 3 MARCH 93

WEATHER: OVERCAST 50°F

REMARKS: SOIL APPEARED UNDISTURBED, NO DEBRIS PRESENT ON SURFACE, COMMUNICATION WIRE PRESENT IN SUBSURFACE.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1		HNU <1	UNDISTURBED SOIL DISTINCT HORIZONS VISIBLE NO DEBRIS PRESENT	
2	NA			
3		1-12	UNDISTURBED SOIL DISTINCT HORIZONS VISIBLE COMMUNICATION WIRE PRESENT. ELEVATED HNU READINGS	
4	NA			
5	6-TP3-02	1-12	LIGHT BROWN MATERIAL ENCOUNTERED WITH ELEVATED HNU READINGS (4-5 ppm) SAMPLE 6-TP3-02 TAKEN AT 5'	
6				
7	NA		TOTAL EXCAVATION DEPTH	
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO CENTERS

BAKER REP.: PETE MONDAY

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: 6-TP3

SHEET 1 OF

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMPTON RIFTS

S.O. NO.: 19133

TEST PIT NO.: 6-TP4

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 3 MARCH 93

WEATHER: OVERCAST 50°F

REMARKS: SOIL APPEARED UNDISTURBED, NO DEBRIS PRESENT ON SURFACE, COMMUNICATION WIRE PRESENT IN SUBSURFACE.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1		HNU < 1	UNDISTURBED SOIL DISTINCT HORIZONS VISIBLE NO DEBRIS PRESENT.	
2	NA			
3		HNU < 1	UNDISTURBED SOIL DISTINCT HORIZONS VISIBLE NO DEBRIS PRESENT	
4	NA			
5		HNU < 1	COMMUNICATION WIRE PRESENT. DISTINCT HORIZONS. BEGINNING OF LIGHT BROWN SOIL.	
6	NA			
7	6-TP4-02	2-3	COMMUNICATION WIRE PRESENT, SAMPLE OF LIGHT BROWN SOIL, COLLECTED SAMPLE 6-TP4-02 AT 8'.	
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO CENTERS

BAKER REP.: PETE MONDAY

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: 6-TP4

SHEET 1 OF

# TEST PIT RECORD

PROJECT: CAMPLEJEUNE RI/FS

S.O. NO.: 19133

TEST PIT NO.: 6-TP5

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 3 MARCH 93

WEATHER: OVERCAST 50°F

REMARKS: SOIL APPEARED UNDISTURBED, 1-GALLON AND 5-GALLON CONTAINERS PRESENT NEAR TEST PIT AREA, SEVERAL CONTAINERS LOCATED WITHIN SUBSURFACE.

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm		Visual Description	Elevation
			Field		
1			<2	UNDISTURBED SOIL DISTINCT HORIZONS PRESENT NO DEBRIS PRESENT	
2	NA				
3			<2	UNDISTURBED SOIL DISTINCT HORIZONS PRESENT SMALL PIECES OF METAL DEBRIS,	
4	NA				
5			<2	METAL DEBRIS INCREASES SEVERAL 1/2 GALLON UP TO 5 GALLON CONTAINERS ENCOUNTERED FROM 5'-7'	
6	NA				
7	6-TP5-02 6-TP5D-02 6-TP56R-02	10		SAMPLE TAKEN UNDERNEATH CONTAINERS SAMPLE 6-TP5-02 AND DUPLICATE SAMPLE 6-TP5D-02. SAMPLE 6-TP56R-02 WAS OF A GREENISH BLUE GREASE TYPE MATERIAL FROM ONE OF THE CONTAINERS.	
8					
9			10	UNDISTURBED SOIL DISTINCT HORIZONS PRESENT	
10	NA				
11					
12					
13					
14					
15					

CONTRACTOR: GEOCENTERS

BAKER REP.: PETE MONDAY

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: 6-TP5

SHEET 1 OF

# Baker

Baker Environmental, Inc.

# TEST PIT RECORD

PROJECT: CAMPLETONE RIFFS

S.O. NO.: 19133

TEST PIT NO.: 6-TP7

COORDINATES: EAST \_\_\_\_\_

NORTH: \_\_\_\_\_

SURFACE ELEVATION: \_\_\_\_\_

DATE: 3 MARCH 93

WEATHER: OVERCAST 50°F

REMARKS: SOIL APPEARED UNDISTURBED, 1-GALLON AND 5-GALLON CONTAINERS PRESENT NEAR TEST PIT AREA, SEVERAL CONTAINERS LOCATED WITHIN SUBSURFACE

### DEFINITIONS

HNU = Photo Ionization Detector Reading

OVA = Organic Vapor Analyzer Reading

Depth (Ft.)	Sample Type and No.	HNU or (OVA) ppm	Visual Description	Elevation
		Field		
1	NA	<2	UNDISTURBED SOIL DISTINCT HORIZONS PRESENT NO DEBRIS PRESENT	
2				
3	NA	<2	UNDISTURBED SOIL DISTINCT HORIZONS PRESENT SMALL PIECES OF METAL DEBRIS	
4				
5	NA	<2	METAL DEBRIS INCREASES SEVERAL 1/2 GALLON UP TO 5 GALLON CONTAINERS ENCOUNTERED FROM 5'-7'	
6				
7	6-TP7-02	10	SUBSURFACE CONTAINERS SAMPLE 6-TP7-02 TAKEN UNDERNEATH CONTAINERS. TOTAL EXCAVATION DEPTH.	
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEOCENTERS

BAKER REP.: PETE MONDAY

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: 6-TP7

SHEET 1 OF 1