

Appendix A
Geo-Center's UXO Survey

SITE 6

CAMP LEJEUNE, NC

UXO SURFACE AND SUBSURFACE
INVESTIGATION AND REMOVAL

FINAL REMOVAL REPORT

OCTOBER 16, 1992

Presented by

GEO-CENTERS, INC.



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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



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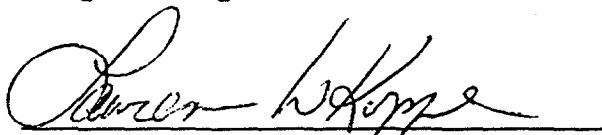
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SECTION I

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.

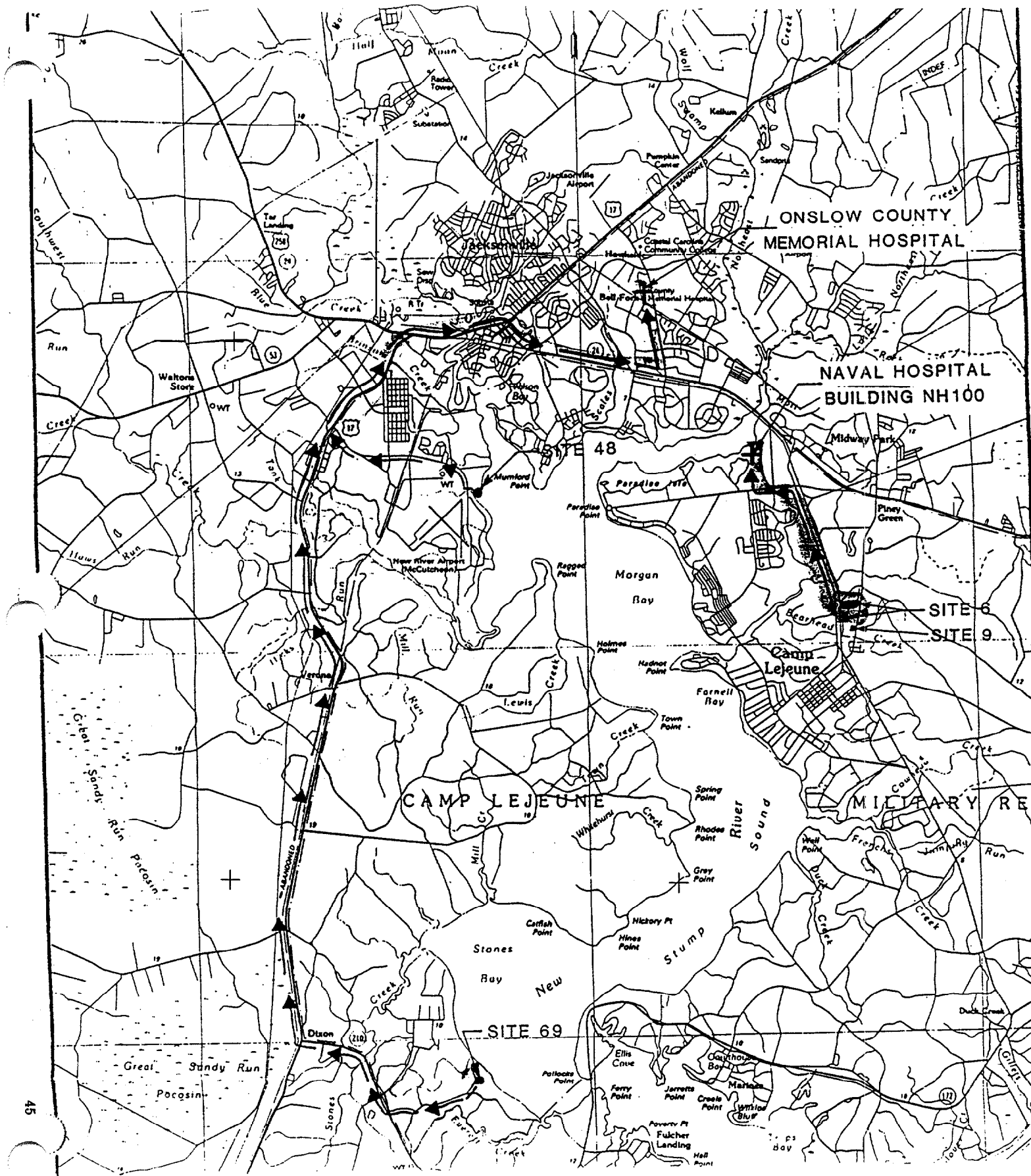
1.2 BACKGROUND

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.





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 ft²). 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 ¹	Location ²	Borehole Number	Clearance Diameter ¹	Location ²
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 ⁶	1 ft	17 ft South
5	6 ft	Original	24 ⁷	1 ft	Original
6 ³	4 ft	15 ft East	25	10 ft	Original
7 ³	4 ft	3 ft East	26 ⁸	4 ft	Original
8	6 ft	Original	27	4 ft	6 ft South
9	6 ft	Original	28 ⁹	4 ft	1 ft North
10	6 ft	Original	29	4 ft	1 ft North
11	6 ft	Original	30	6 ft	Original
12 ³	4 ft	15 ft East	31	4 ft	Original
13 ³	4 ft	4 ft West	32	4 ft	Original
14 ³	6 ft	12 ft South	33 ¹⁰	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 ⁴	4 ft	Original	36	10 ft	Original



Table 6-1 - Continued.

Lot 203 and Areas North of Lot 203

Borehole Number	Clearance Diameter ¹	Location ²	Borehole Number	Clearance Diameter ¹	Location ²
18 ⁵	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 ¹	Location ²	Borehole Number	Clearance Diameter ¹	Location ²
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 Area¹

Borehole Number	Clearance Diameter ²	Location ³	Borehole Number	Clearance Diameter ²	Location ³
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 ⁴

- 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 ¹	Location ²	Borehole Number	Clearance Diameter ¹	Location ²
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 ⁴	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 ³	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 ³	6 ft	12 ft south
14	4 ft	Original	31 ³	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 ¹	Location ²	Borehole Number	Clearance Diameter ¹	Location ²
16	2 ft	Original	33 ³	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 ¹	Location ²	Borehole Number	Clearance Diameter ¹	Location ²
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 ¹	Location ²	Borehole Number	Clearance Diameter ¹	Location ²
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 ¹	Location ²	Monitoring Well	Clearance Diameter ¹	Location ²
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 the 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 by 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

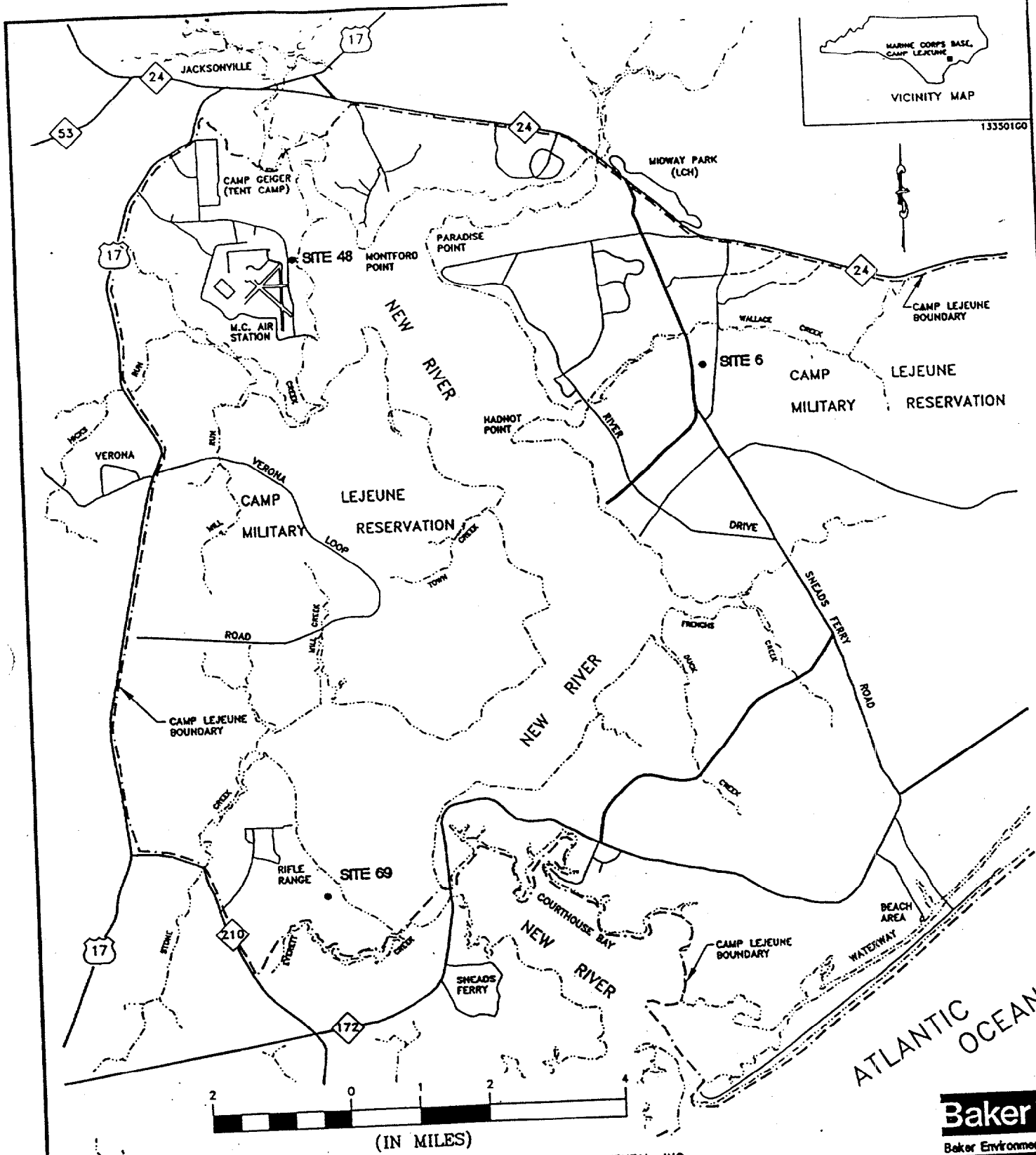
- A EM Conductivity and In-Phase Profiles

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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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Baker
Baker Environmental

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

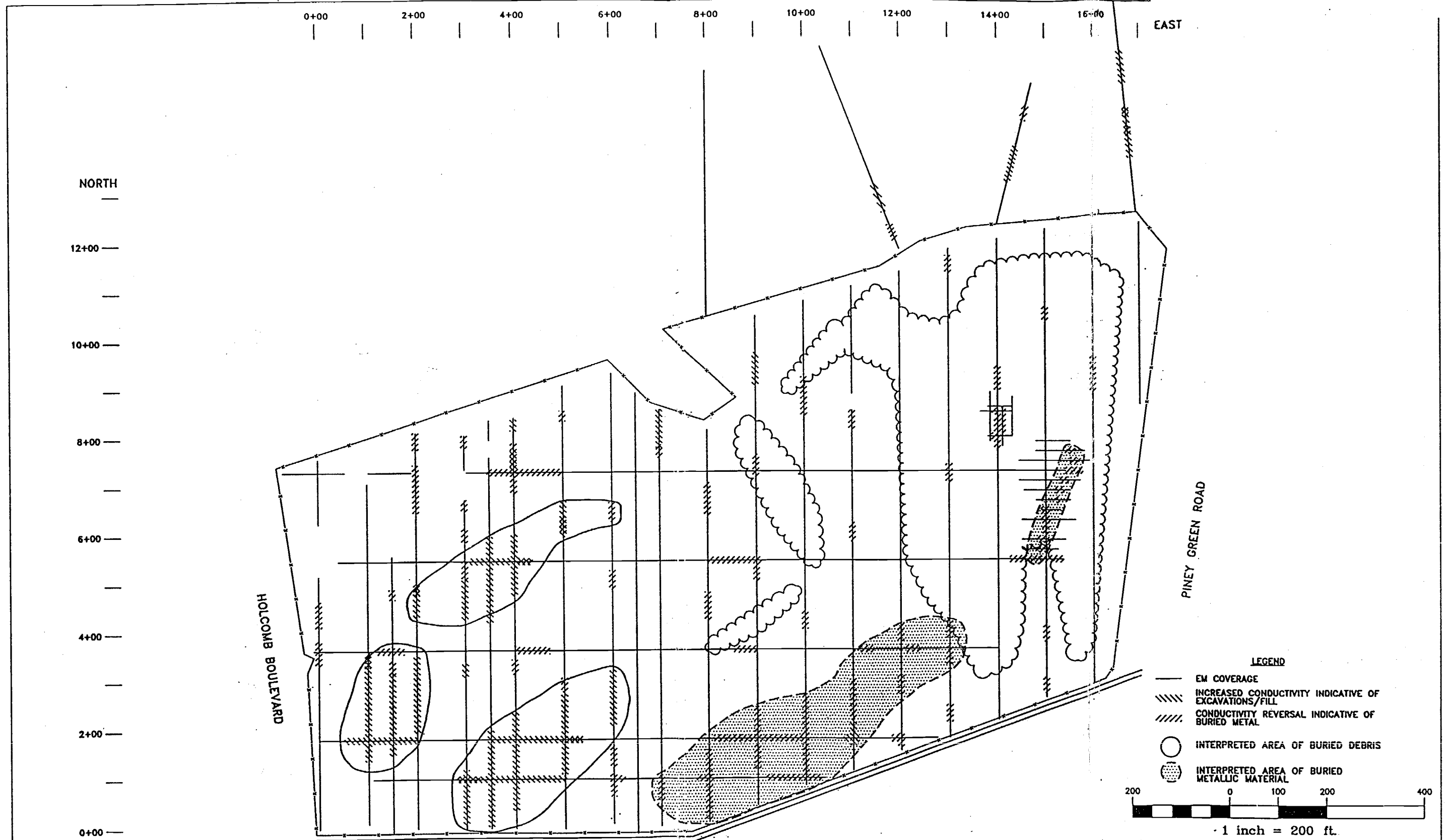
Geophysical data obtained during this survey were referenced to a grid established at each site, as well as to roads, fences, wells, and other physical and cultural features on site. At Sites 6 and 48, a survey grid was established by Hoggard-Eure Associates (a licensed professional surveying company) 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).

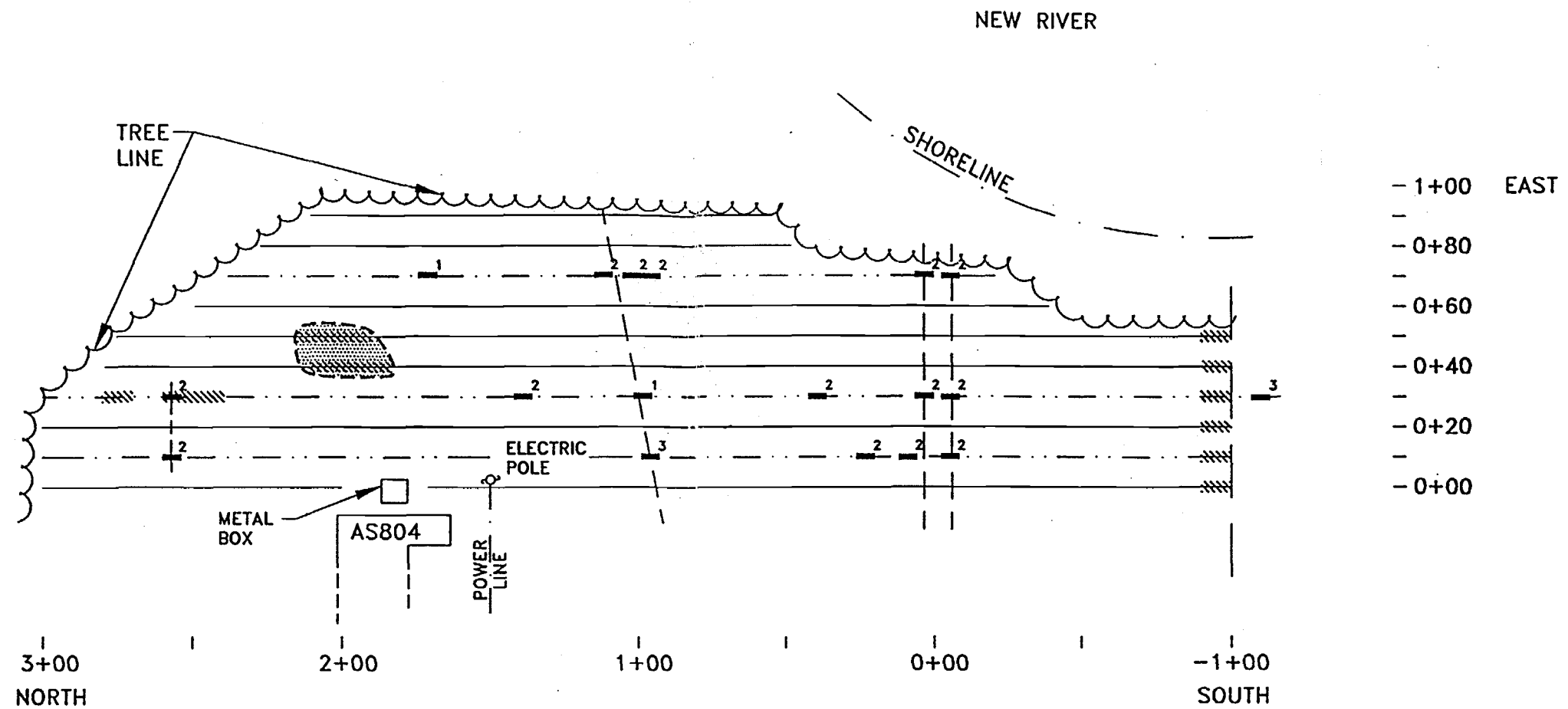
The conductivity of the soil or buried materials is determined by measuring the response of the ground to an induced magnetic field. Factors affecting in-situ conductivity include porosity, moisture content, clay content, and the conductivity of subsurface fluids and materials. Former excavations or 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

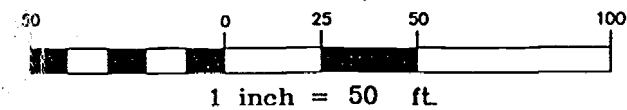


REVISIONS WESTON GEOPHYSICAL CORP. IS A WHOLLY OWNED SUBSIDIARY OF BAKER ENVIRONMENTAL, INC.	DATE MARCH 1993 SCALE 1" = 200' DRAWN REL REVIEWED MJN	GEOPHYSICAL INVESTIGATION MCB CAMP LEJEUNE NORTH CAROLINA	Baker Environmental, Inc.	SITE 6 - LOT 203 EM SURVEY RESULTS	FIGURE NO. 2-1
	S.O.# 19133-54-SRN CADD# 133510G0	WESTON GEOPHYSICAL CORP. Coraopolis, Pennsylvania		SCALE 1" = 200' DATE MARCH 1993	

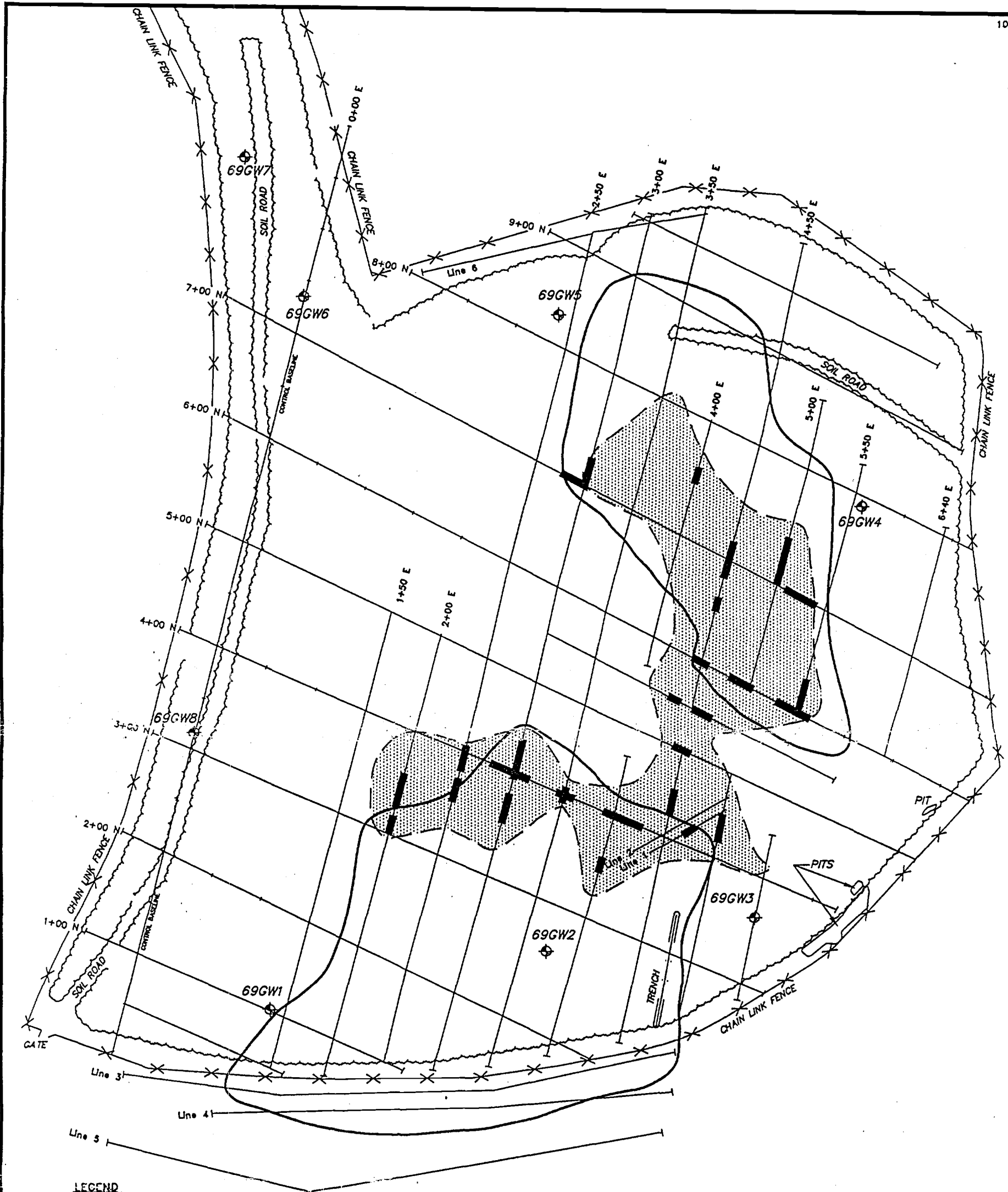
01272AR17



- 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

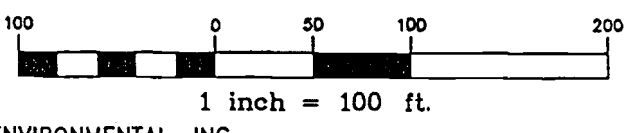


REVISIONS WESTON GEOPHYSICAL CORP. IS A WHOLLY OWNED SUBSIDIARY OF BAKER ENVIRONMENTAL, INC.	DATE MARCH 1993 SCALE 1" = 200' DRAWN REL REVIEWED MJN	GEOPHYSICAL INVESTIGATION MCB CAMP LEJEUNE NORTH CAROLINA	Baker Environmental, Inc.	SITE 48 EM SURVEY RESULTS	FIGURE NO. 2-2
	S.O.# 19133-54-SRN CADD# 133503GO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



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

CLEJ-01272-3.13-08/20/93

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

C.1

Soil Sampling Summary for Grid 201A - Site 6

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

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

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

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
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

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

C.3

Soil Sampling Summary for Grid 201C - Site 6

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

Sample Location	Depth of Borehole (feet, bgs)	Sampling Intervals (feet, bgs)	Analytical Parameters
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**

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

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

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

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

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

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

APPENDIX C.10

TABLE C-10

SOIL SAMPLE SUMMARY FOR GRID 201 S
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	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**

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

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	0-0.5	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

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

D.1
Grid 201A

SOIL DESCRIPTION

CLEJ-01272-3.13-08/20/93

GRAIN SIZE IDENTIFICATION

<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

RELATIVE DENSITY

NONCOHESIVE SOIL

<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

COHESIVE SOILS

<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

MOISTURE

DESCRIPTIVE TERMS

Dry -	Trace	0-10%
Damp	Little	10-20%
Moist	Some	20-35%
Wet	with = And	35-50%

Very Soft -	Easily gouged by knife, easily scratched by fingernail, easily broken by hand
Soft -	Gouged by knife, scratched by fingernail, difficult to break by hand, powders with hammer
Medium Hard -	Easily scratched by knife, easily broken with hammer
Hard -	Difficult to scratch, breaks with hammer
Very Hard -	Difficult to break, rings when struck

WEATHERING

Decomposed -	Soft to Very soft, bedding and fractures indistinct, no cementation.
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).
Weathered -	Soft to medium hard. Good cementation, bedding and fractures are pronounced. Uniformly stained.
Slightly Weathered -	Medium hard. Fractures pronounced, non-uniform staining, bedding distinct.
Fresh -	Medium hard to hard. No staining. Fractures may be present. Bedding may or may not be indistinct.

BEDDING AND FRACTURES:

<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	

CONTACTS:

_____	= DEFINITE
_____	= INDEFINITE
.....	= GRADATIONAL

SAMPLE TYPE

ABBREVIATIONS

S = Split Spoon	HS = Hollow Stem
T = Shelby Tube	NP = Non Plastic
R = Air Rotary	-PL = Below the Plastic Limit
D = Denison	PL = At the Plastic Limit
A = Auger	+ PL = Above the Plastic Limit
W = Wash (Roller Bit)	+ LL = Above the Liquid Limit
C = Core	SPT = Standard Penetration Test
P = Piston	
N = No Sample Taken	RQD = Rock Quality Designation

PROJECT: Lot 2011
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

BORING NO.: SR#1
 NORTH: _____
 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	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 ELEVATION	
	ROCK	Type No. (N = No Samp.)									(Ft. & %)
1		S1 A-N	5		1.4	HUMUS. Silty loam w/ some sand	Dr gray	Loose	Damp Root material		
2		S2	13		1.3	SAND fine grained w/ trace silt	Black to dk. brown to yellow brown	medium dense	Moist		
3			10								
4		S3	6		1.3		light brown	medium dense	Wet		
5			13			END of Boring				5' water	
6											
7											
8											
9											
10											

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

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

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201

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>8-28-92</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	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		HNU PID (ppm)	Color			Hardness
1		<u>S1 AN</u>				<u>Humus silty loam w/ sand</u>	<u>dk gray</u>	<u>Loose</u>	<u>Damp Root & Plant material</u>		
2		<u>S2</u>	<u>1 1/2 / 2.0</u>	<u>4</u>		<u>SAND fine grained w/ trace silt</u>	<u>Black to dk brown to yellow brown</u>	<u>medium dense</u>	<u>Moist</u>		
3		<u>S3</u>	<u>80% / 1 1/4 / 2.0</u>	<u>8</u>							
4			<u>70% / 1 1/4 / 2.0</u>	<u>12</u>			<u>lt. brown</u>	<u>medium dense</u>	<u>wet</u>		
5						<u>END of Bore 45'</u>				<u>5' wa 4'</u>	
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc

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

DRILLER: Terry Mize

BORING NO.: SB # 2 SHEET 1 OF 1

PROJECT: Lot 201

S.O. NO.: 19133

BORING NO.: SB #3

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'	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	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		S1 A-N				HUMUS silty loam w/ sand	DK gray	Loose	Damp Root & Plant material		
2		S2	.6/20	4		SAND fine grained w/ trace silt	DK Brown to yellow	medium dense	Moist		
3		S3	30%	6			Brown to lite Brown	dense			
4			1.3/20	7							
5			65%	13	13	END of boring	lite Brown	medium dense	Wet		5'
6											
7											
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

PROJECT: Lot 201

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>8-28-92</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	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>S1 A-N</u>			<u>HUMUS city loam w/ some sand</u>	<u>dk gray</u>	<u>Loose</u>	<u>Damp Root & Plant material</u>			
2		<u>S2</u>	<u>1.5 / 20</u>	<u>5</u>	<u>SAND fine to medium grained w/ trace silt</u>	<u>Black to dk Brown to yellow/ Brown</u>	<u>medium dense</u>	<u>Moist</u>			
3			<u>75%</u>	<u>5</u>							
4		<u>S3</u>	<u>1.3 / 20</u>	<u>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>	<u>4</u>	
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J. E. Zimmerman

DRILLER: Terry Mize

BORING NO.: SB # 4 SHEET 1 OF 1

PROJECT: Lot 201 F

S.O. NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: SG # 5

NORTH: _____

TOP OF PVC CASING: _____

RIG: Mobil Drill 3					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	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	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	Knu 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 A-N	1.5/2.0	7		1.5	SILT w/ sand	dk gray	Loose	Dry Gravel		
2		S2	75%	5		1.4	SAND fine grained w/ some organic material	lite gray	medium	Moist		1.3'
3			1.4/2.0	5			organic material	dk gray	dense	organic laminations		1.6'
4		S3	70%	3		1.4	SAND fine grained w/ little silt	lite brown to dk gray	Loose	Wet		2.3'
5				6			END of Boring					5'
6												3.0'
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Miza

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

BORING NO.: SG # 5 SHEET 1 OF 1

PROJECT: Lot 201 Ar

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 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>N</u> <u>A-N</u>				<u>No Recovery</u> <u>SAND fine grained &</u> <u>w/ trace silt</u>	<u>lite</u> <u>brown to</u> <u>dk gray</u>	<u>medium</u> <u>dense</u>	<u>Moist</u>		<u>.5'</u>
2		<u>S1</u>	<u>1.4/20</u>	<u>8</u>							
3			<u>70%</u>	<u>8</u>							
4		<u>S2</u>	<u>1.1/20</u>	<u>3</u> <u>6</u> <u>10</u>			<u>lite</u> <u>gray</u>	<u>medium</u> <u>dense</u>	<u>Moist</u>		
5			<u>55%</u>	<u>14</u>							
6		<u>S3</u>	<u>1.3/20</u>	<u>3</u> <u>8</u> <u>12</u>			<u>lite</u> <u>gray</u>	<u>medium</u> <u>dense</u>	<u>Wet</u>		
7			<u>65%</u>	<u>11</u>		<u>END of Borehole</u>					<u>7'</u>
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc

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

DRILLER: Tarry Mize

BORING NO.: SB #6 SHEET 1 OF 1

PROJECT: Lot 201 F.
 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		HS A						
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	HMW 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	Buff	Loose	Dry Gravel	.5'
2		S2	1.4/20	7		1.6	SAND fine grained w/ trace silt	yellow orange to lite gray	medium dense	Moist	
3			70%	8							
4		S3	1.6/20	4		1.4		yellow brown to lite gray	medium dense	Moist	
5			80%	5							
6		S4	1.5/20	3		1.3		lite gray	medium dense	Wet	
7			75%	8			END of Boring 7'				7'
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman
 DRILLER: Terry Mize BORING NO.: SB # 7 SHEET 1 OF 1

PROJECT: Site 6 10
 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>	/	/
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

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

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. & %)	Per. Rate					
1		HA1			Silt and fine sand		Dark gray		dry clay		
		HA2			fine sand, little silt						
		HA3			organic silt, some sand		black		Note Pen at 1.75' - 2.0'		
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 BAKER REP.: D. J Martin
 DRILLER: NA BORING NO.: SB 7A SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 A

S.O. NO.: 19133

BORING NO.: SB # 8

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" IO		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.	SPT Blows Per 0.5' RQD (Ft & %)	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
						Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N			1.7	SILT w/ sand	Buff	Loose	Dry trace gravel		
2		S2	1.4/20		1.7	SAND fine grained w/ trace silt	yellow orange to light gray	medium dense	Moist		
3			70%		1.4						
4		S3	1.5/20		1.2		yellow brown	medium dense	Moist		
5			75%								
6		S4	1.5/2.0		1.1		light brown to light gray	medium dense	Wet		
7			75%								
8						END of boring 7'					
9											
10											

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr

BORING NO.: SB # 8 SHEET 1 OF 1

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

BORING NO.: SB # 9
 NORTH: _____
 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				1.1	SILT w/ some sand	Buff	Loose	Dry Gravel		5'
2		S2	1.5/ 2.0	12 13 14		1.1	SAND fine grained w/ trace silt	Yellow/ Brown	medium dense	Moist		
3			75% 1.4/ 2.0	14 8								
4		S3		10 10 11		1.0		DK. Brown	medium dense	Moist		
5			70% 1.3/ 2.0	10 10 11								
6		S4		10 10 18		.9		Yellow/ brown to brown	medium dense	Wet		
7			65%	18			END of boring					7'
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

PROJECT: Lot 201

S.O. NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: SB # 10

NORTH: _____

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 sample
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.	MVA 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>1.0</u>	<u>HUMUS silty loam w/ some sand</u>	<u>dk. gray</u>	<u>Loose</u>	<u>Damp Root & Plant material</u>			
2		<u>S2</u>	<u>1.3 / 2.0</u>	<u>6</u>			<u>SAND fine to medium grained w/ trace silt</u>	<u>Brown to light brown</u>	<u>medium dense</u>	<u>Moist</u>			
3			<u>65%</u>	<u>7</u>									
4		<u>S3</u>	<u>1.2 / 2.0</u>	<u>4</u>					<u>light brown</u>	<u>medium dense</u>	<u>Wet</u>		
5			<u>60%</u>	<u>6</u>			<u>END of boring</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.: SB # 10 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD T

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201

S.O. NO.: 19133

BORING NO.: SB # 11

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	5'	overcast/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	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		S1 A-N				HUMUS silty loam w/ some sand	dk. gray	Loose	Damp Root / Plant material / Gravel		
2		S2	1.4 / 20	10		SAND fine to medium grained w/ trace silt	Brown to lite Brown	medium dense	Moist		
3			70%	11							
4		S3	1.3 / 20	5			lite. Brown	medium dense	Wet		
5			65%	14							5'
6				16		END of Boring					
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc

BAKER REP.: J.E Zimmerman, Jr.

DRILLER: Terry Mize

BORING NO.: SB# 11 SHEET 1 OF 1

PROJECT: Lot 201

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.	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	
				RQD (Ft. & %)	Pen. Rate			MNU PID (ppm)			Hardness
1		S1 A-N	1.5	11		HUMUS silty loam w/ some sand	dk. gray	Loose	Damp Gravel & Root material		
2		S2	2.0	10		SAND fine to medium grained w/ trace silt	Brown to lite Brown	medium dense	Moist		
3			75%	13							
4		S3	1.4 / 2.0	4 / 4			lite Brown	medium dense	Wet		
5			70%	11		END of Boring 5'				5'	
6											
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

PROJECT: Lot 201 A
 S.O. NO.: 19133 BORING NO.: SB#13
 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	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
				Blows Per 0.5'	Pen. Rate		RQD (Ft. & %)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		S1 A-N	1.4/20	10			SILT w/ some sand	Buff	Loose	Dry		5'
2		S2	70%				SAND fine grained w/ trace silt	lite gray to v. dk. Brown	medium dense	Moist		
3		S3	1.3/20					v. dk. Brown to lite Brown	medium dense	Wet		
4			65%									
5							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

PROJECT: Lot 201

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>8-26-92</u>	<u>5'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSN</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 (FL & %)	Pen. Rate	MNA PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		S1 A-N				.9	SILT w/ some sand	Buff	Loose	Dry	.5
2		S2	<u>1.1/20</u>	<u>7</u>		.9	SAND fine grained w/ trace silt	lite gray to dk. Brown	medium dense	Moist	
3		S3	<u>55%</u>	<u>7</u>		.9	SAND fine to medium grained w/ trace silt	lite Brown	Loose	Wet gravel	3
4			<u>1.0/20</u>	<u>7</u>		.9					
5			<u>50%</u>	<u>7</u>			END of boring				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

PROJECT: Lot 201 Area
 S.O. NO.: 19/33 BORING NO.: SB #15
 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>8-26-92</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.	HWL 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	2.0	5		.9	SILT w/ some sand	Buff	Loose	Dry		
2		S2	2.0	6		1.0	SAND fine grained w/ trace silt	Yellow/Brown to light gray to Black	Loose	Moist		
3			100%	3						organic material (roots)		
4			11.5	1			1.0		Dk. Brown	Loose	Wet	
5			2.0	1			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 #15 SHEET 1 OF 1



FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 2014
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

BORING NO.: SB # 16
 NORTH: _____
 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 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	HNW 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>1.0</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry</u>		<u>5'</u>
2			<u>1.3 / 2.0</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>S2</u>	<u>65%</u>									
4		<u>S3</u>	<u>1.4 / 2.0</u>			<u>1.0</u>		<u>DK Brown to lite Brown</u>	<u>Loose</u>	<u>Wet</u>		<u>5'</u>
5			<u>70%</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.: SB # 16 SHEET 1 OF 1

PROJECT: Lot 201

S.O. NO.: 19133

BORING NO.: SB # 17

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'		8-26-92	5'	Sunny/Warm		
TYPE	STD		HS4						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon sample
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
		Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate						
1		S1 A-N				SILT w/ some sand	Buff	Loose	Dry Trace gravel		
2		S2	1.6 2.0	8 10		SAND fine grained w/ trace silt	lite Brown to Black	medium dense	Moist		
3			80%	8							3'
4		S3	1.4 2.0	2 3 3		SAND and silt w/ some clay	lite Brown to lite gray	stiff	Moist to wet		
5			70%	10		END of Boring 5'					5'
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.

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

DRILLER: Terry Mize

BORING NO.: SB # 17 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: _____
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

BORING NO.: 625114
NORTH: _____
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"</u>		<u>3.25"</u>		<u>10-13-92</u>	<u>0-8'</u>	<u>Clear, Cool</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE			<u>2.5"</u>						
HAMMER WT.	<u>140#</u>								
WELL	<u>36"</u>								
WELL PICK 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 (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		S-1	1.5 2.0	2		SAND, well-sorted, fine grained, silty	brown	medium dense	damp		
2			1.5% 1.7								2.0
3		S-2	2.0			SILT, with sand	brown	medium stiff	damp		3.5
4			85% 1.9								
5		S-3	2.0	5		SAND, fine grained, some silty	tan	medium dense	damp		
6			1.9	12			white				
7		S-4	1.0	10		Sand, fine grained, with silty	white	dense	fine grained, silty		
8			1.5%								8.0
9											
10											

DRILLING CO.: Environmental Services, Inc.
DRILLER: P. J. ...

BAKER REP.: [Signature]
BORING NO.: 625114 SHEET 1 OF 1

PROJECT: Lot 201 A
 S.O. NO.: 19133 BORING NO.: SP # 18
 COORDINATES: EAST: _____ NORTH: _____
 ELEVATION: SURFACE: _____ TOP OF PVC CASING: _____

RIG: <u>Mobile Drill 2</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 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	Hardness		
1		<u>S1 A-N</u>				<u>SILT w/ some sand</u>	<u>Buff</u>	<u>loose</u>	<u>Dry Gravel</u>		
2		<u>S2</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											
4		<u>S3</u>					<u>Brown to light Brown</u>	<u>medium dense</u>	<u>Wet</u>		
5						<u>END of boring 5'</u>					<u>5'</u>
6											
7											
8											
9											
10											

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

BAKER REP.: J. E. Zimmerman, Sr.
 BORING NO.: SP # 18 SHEET 1 OF 1

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

BORING NO.: SB # 19
 NORTH: _____
 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 sample
Bore hole grouted to surface

DRILL RECORD						VISUAL DESCRIPTION					SOIL ELEVATION	ROCK
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			
				Type No. (N = No Samp.)	(Ft. & %)					RQD (Ft. & %)	Pen. Rate	HNW PID (ppm)
1		S1 A-N				AG	SILT w/ some sand	buff	Loose	Dry Gravel	5'	
2		S2	1.4 / 2.0	8 9 9		1.6	SAND fine grained w/ trace silt	lite Brown to lite gray	medium dense	Moist		
3			70%	9								
4		S3	1.4 / 2.0	3 4 5		1.6		dk Brown to lite brown	Loose	Wet		
5			70%	6							5'	
6							END of Boring					
7							5					
8												
9												
10												

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

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

PROJECT: Lot 201 Area A RPT's 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>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' 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	MWA PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1				1.6	SILT w/ some sand	buff	Loose	Dry Gravel		
2		A-N	1.5 / 2.0	7		1.6	SAND fine grained w/ some silt	lt. Brown to dk gray	medium dense	Moist		
3		S2	75%	10				dk gray				
4			1.3 / 2.0	5		1.6		dk Brown to dk gray	medium dense	wet		
5			65%	7			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# 20 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 2011
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

BORING NO.: SB# 21
NORTH: _____
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 sample
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.	ANW 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				1.4	SILT w/ some sand	buff	loose	dry gravel		5'
2		S2	1 3/20 65%	0011		1.4	SAND and gravel w/ trace silt	ltc Brown to ltg gray	medium dense	Moist		
3		S3	1 3/20 65%	2111		1.4		ltc Brown	loose	Wet		
4												
5							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# 21 SHEET 1 OF 1

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

BORING NO.: SB# 22
 NORTH: _____
 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 sample
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	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	ELEVATION
							ROCK	Type-No. (N = No Samp.)	RQD (Ft. & %)	Pen. Rate		
1		<u>S1</u>				<u>13</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>DRY</u>	<u>Gravel</u>	<u>5'</u>
2		<u>S2</u>	<u>1.4 / 2.0</u>	<u>7</u>		<u>13</u>	<u>SAND fine grained w/ trace silt</u>	<u>like Brown to like gray to like brown</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>13</u>		<u>like gray</u>	<u>medium dense</u>	<u>Wet</u>		
5			<u>75%</u>	<u>4</u>			<u>END of Boring</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.: SB# 22 SHEET 1 OF 1

PROJECT: Lot 201

S.O. NO.: 19133

BORING NO.: SB # 23

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 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 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 (FL & %)	Pen. Rate	HMW PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
		<u>S1</u>				<u>1.5</u>	<u>SILT w/ sand sand</u>	<u>Black</u>	<u>Loose</u>	<u>Dry GRAVEL</u>	
<u>1</u>		<u>A-N</u>									
<u>2</u>			<u>1.3 / 2.0</u>	<u>7</u>		<u>1.5</u>	<u>SAND fine grained w/ trace silt</u>	<u>lt to Brown to gray to dk Brown</u>	<u>medium dense</u>	<u>Moist</u>	
<u>3</u>		<u>S2</u>	<u>65%</u>	<u>7</u>							
<u>4</u>		<u>S3</u>	<u>1.3 / 2.0</u>	<u>7</u>		<u>1.5</u>		<u>lt to Gray</u>	<u>medium dense</u>	<u>Wet</u>	
<u>5</u>			<u>65%</u>	<u>7</u>			<u>END of Boring</u>				<u>5'</u>
<u>6</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: Terry Mize

BORING NO.: SB # 23 SHEET 1 OF 1

PROJECT: Lot 201
 S.O. NO.: 19133 BORING NO.: SB # 24
 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 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>H5H</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' 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
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	MWD PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		S1				12	SILT w/ some sand	Buff	Loose	Dry Gravel	5'
2		S2	1 1/2	6		13	SAND fine grained w/ trace silt	dk. gray to lite gray	medium dense	Moist	
3			60%	14							
4		S3	1 3/4	4		13		lite gray to yellowish Brown	medium dense	Wet	
5			65%	5							5'
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc BAKER REP.: J. E. Zimmerman, Jr.
 DRILLER: Terry Mize BORING NO.: SB # 24 SHEET 1 OF 1

Baker

Baker Environmental, Inc

FIELD TEST

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201

S.O. NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: SB# 25

NORTH: _____

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 sample
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						
		<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>1.4 / 20</u>	<u>96</u>		<u>SAND fine grained w/ trace silt</u>	<u>lt. Brown to lt. gray to dk. Brown</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>70%</u>								
4		<u>S3</u>	<u>1.1 / 20</u>	<u>100</u>			<u>lt. Brown to lt. gray</u>	<u>medium dense</u>	<u>Wet</u>		
5			<u>55%</u>	<u>10</u>		<u>END of Boring</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.: SB# 25 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201

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>HSA</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring to 5' 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	Lab. Class.	Mn. 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 (FL & %)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
		<u>S1</u>				<u>1.2</u>	<u>SILT w/ some sand</u>	<u>Buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
<u>1</u>		<u>A-N</u>										
<u>2</u>		<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</u>	<u>medium dense</u>	<u>Moist</u>		
<u>3</u>			<u>75%</u>	<u>9</u>				<u>DK brown</u>				
<u>4</u>			<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>		
<u>5</u>			<u>55%</u>	<u>7</u>								
<u>6</u>				<u>7</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 # 26 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TRIP

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201

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>8-27-92</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 sample
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	Mn 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>S1</u>				<u>1/2</u>	<u>SILT w/ some sand</u>	<u>buff</u>	<u>loose</u>	<u>DRY Gravel</u>		
2		<u>A-N</u>		<u>14</u>		<u>1/2</u>	<u>SAND fine grained w/ trace silt</u>	<u>light brown to light gray to brown</u>	<u>medium dense</u>	<u>Moist</u>		
3		<u>S2</u>	<u>70%</u>	<u>11</u>				<u>light brown to light gray</u>	<u>loose</u>			
4			<u>16</u>	<u>11</u>		<u>1/2</u>		<u>light brown to light gray</u>		<u>Wet</u>		
5			<u>80%</u>	<u>6</u>			<u>END of Bore</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# 27 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201
 S.O. NO.: 19133 BORING NO.: SB # 28
 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 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.	MWD 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/gray</u>	<u>Loose</u>	<u>Dry Gravel</u>		
<u>1</u>		<u>A-N</u>	<u>1.0</u>	<u>8</u>			<u>SAND fine grained w/ trace silt</u>	<u>light brown to light gray</u>	<u>medium dense</u>	<u>moist</u>		
<u>2</u>			<u>2.0</u>	<u>10</u>	<u>1.0</u>			<u>DK Brown</u>	<u>medium dense</u>			
<u>3</u>			<u>50%</u>	<u>10</u>				<u>DK Brown</u>				
<u>4</u>		<u>S3</u>	<u>1.0</u>	<u>3</u>		<u>1.0</u>		<u>DK Brown to light gray</u>	<u>medium dense</u>	<u>moist</u>		
<u>5</u>			<u>50%</u>	<u>5</u>				<u>light gray</u>	<u>medium dense</u>			
<u>6</u>			<u>1.2</u>	<u>7</u>		<u>1.0</u>		<u>light brown</u>	<u>medium dense</u>	<u>wet</u>		
<u>7</u>			<u>60%</u>	<u>9</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

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 2011

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 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 sample
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	SPT Blows Per 0.5' Samp. Rec. (Ft. & %)	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 ROCK	ELEVATION
							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>yellow/buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>A-N</u>	<u>1.0 / 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>50%</u>	<u>15</u>								
4		<u>S3</u>	<u>1.3 / 20</u>	<u>4</u>				<u>lite gray to dk brown</u>	<u>medium dense</u>	<u>moist</u>		
5			<u>65%</u>	<u>11</u>								
6			<u>1.9 / 20</u>	<u>4</u>				<u>dk brown</u>	<u>medium dense</u>	<u>wet</u>		<u>WG</u>
7			<u>50%</u>	<u>14</u>		<u>1.0</u>						
8							<u>END OF BORE</u>					
9												
10												

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 TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201
 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
Bore hole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	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
	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		
		<u>S1</u>				<u>1.0</u>	<u>SILT w/ some sand</u>	<u>Yellow/Blue</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>12</u>		<u>1.0</u>		<u>DK Brown to DK Brown to lite gray</u>			<u>medium dense</u>	<u>Moist</u>
<u>3</u>			<u>70%</u>	<u>4</u>				<u>DK Brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
<u>4</u>		<u>S3</u>		<u>2.0</u>	<u>6</u>			<u>DK Brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
<u>5</u>			<u>70%</u>	<u>11</u>	<u>11</u>			<u>DK Brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
<u>6</u>			<u>1.3</u>	<u>2.0</u>	<u>4</u>			<u>DK Brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		
<u>7</u>			<u>65%</u>	<u>8</u>	<u>8</u>	<u>1.0</u>		<u>DK Brown to lite gray</u>	<u>medium dense</u>	<u>Moist</u>		<u>6</u>
<u>8</u>				<u>9</u>			<u>END OF BORE</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 # 30 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 K.
 S.O. NO.: 19133 BORING NO.: SB # 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 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.	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		<u>E1</u>				<u>1.0</u>	<u>SILT w/ some sand</u>	<u>yellow buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
2		<u>A.N</u>	<u>1.7</u> <u>2.0</u>	<u>7</u> <u>9</u> <u>12</u>		<u>1.0</u>	<u>SAND fine grained w/ trace silt</u>	<u>light brown to light gray</u>	<u>medium dense</u>	<u>moist</u>		
3			<u>85%</u>	<u>7</u>								
4		<u>E3</u>	<u>1.4</u> <u>2.0</u>	<u>4</u> <u>5</u> <u>7</u> <u>6</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>1.4</u> <u>2.0</u>	<u>2</u> <u>5</u> <u>9</u> <u>10</u>		<u>1.0</u>		<u>light brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>Wet</u> <u>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 TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 F.

S.O. NO.: 19133

BORING NO.: SB # 32

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		MNU PID (ppm)	Color	Hardness		
		<u>S1</u>				<u>SILT w/ some sand</u>	<u>Yellow</u>	<u>Loose</u>	<u>Dry Gravel</u>		
1		<u>A-N</u>									
2			<u>1.3/20</u>	<u>8</u>		<u>SAND fine grained w/ trace silt</u>	<u>light brown to light gray</u>	<u>medium dense</u>	<u>moist</u>		
3			<u>65%</u>	<u>6</u>							
4		<u>S3</u>	<u>1.4/2.0</u>	<u>3</u>			<u>dk. brown</u>	<u>Loose</u>	<u>moist</u>		
5			<u>70%</u>	<u>6</u>							
6			<u>1.0/2.0</u>	<u>2</u>			<u>light brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>WA 6</u>
7			<u>50%</u>	<u>4</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

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 A

S.O. NO.: 19133

BORING NO.: SB # 33

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	MOU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
		<u>SI</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-W</u>									
2			<u>1.2</u> <u>2.0</u>	<u>7</u> <u>11</u> <u>9</u>			<u>SAND fine grained w/ trace silt</u>	<u>light gray</u>	<u>medium dense</u>	<u>moist</u>	
3			<u>60%</u>	<u>7</u>							
4		<u>53</u>	<u>1.5</u> <u>2.0</u>	<u>3</u> <u>4</u> <u>5</u>				<u>DK Brown</u> <u>light gray</u>	<u>Loose</u>	<u>Laminations (top & middle)</u> <u>moist</u>	
5			<u>75%</u>	<u>5</u>				<u>DK Brown</u>			
6			<u>1.3</u> <u>2.0</u>	<u>3</u> <u>6</u> <u>10</u>				<u>light Brown</u>	<u>medium dense</u>	<u>Wet</u>	<u>Water 6'</u>
7			<u>65%</u>	<u>11</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 # 33 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 A

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>8-27-92</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. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	HWD PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL	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/buff</u>	<u>Loose</u>	<u>Dry Gravel</u>		
1		<u>A-N</u>										
2			<u>1.4/20</u>	<u>6</u>			<u>SAND fine grained w/ trace silt</u>	<u>light gray</u>	<u>medium dense</u>	<u>Moist</u>		
3			<u>70%</u>	<u>10</u>		<u>1.2</u>						
4		<u>S2</u>	<u>1.4/2.0</u>	<u>4</u>				<u>lt. gray to dk./lt. brown</u>	<u>Loose</u>	<u>Moist</u>		
5			<u>70%</u>	<u>4</u>		<u>1.1</u>		<u>dk. brown</u>		<u>laminations (middle)</u>		
6			<u>1.3/2.0</u>	<u>3</u>				<u>dk. brown</u>		<u>Wet</u>		
7			<u>65%</u>	<u>6</u>		<u>1.3</u>		<u>dk. brown</u>	<u>medium dense</u>			
8				<u>8</u>								
9				<u>8</u>								
10				<u>10</u>			<u>end of hole</u>					

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

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201

S.O. NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: SB # 35

NORTH: _____

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 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	HMU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
		<u>S1</u>				<u>1.1</u>	<u>SILT w/low sand</u>	<u>yellow/buff</u>	<u>Loose</u>	<u>DN Gravel</u>		
<u>1</u>			<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>		
<u>2</u>			<u>2.0</u>	<u>10</u>	<u>1.3</u>							
<u>3</u>			<u>70%</u>	<u>10</u>								
<u>4</u>		<u>S3</u>	<u>1.4</u>	<u>4</u>		<u>1.2</u>		<u>DK Brown to Gray to Brown</u>	<u>medium dense</u>	<u>Moist</u>		
<u>5</u>			<u>2.0</u>	<u>4</u>								
<u>6</u>			<u>70%</u>	<u>7</u>				<u>lite Brown</u>	<u>medium dense</u>	<u>Moist</u>		
<u>7</u>			<u>1.3</u>	<u>3</u>	<u>1.2</u>							
<u>8</u>			<u>2.0</u>	<u>8</u>								
<u>9</u>			<u>65%</u>	<u>10</u>			<u>END of Boring</u>					
<u>10</u>												

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 RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 2011

S.O. NO.: 19133

BORING NO.: SB # 36

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>8-27-92</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 Blows Per 0.5'	Lab. Class.	MNU 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>SILT w/ some sand</u>	<u>gray</u>	<u>Loose</u>	<u>dry</u>		
1		<u>A-N</u>	<u>1.8</u>	<u>10</u>			<u>SAND fine grained</u>	<u>light gray</u>	<u>medium dense</u>	<u>moist</u>		
2			<u>20</u>	<u>11</u>	<u>1.1</u>		<u>w/ trace silt</u>					
3			<u>40%</u>	<u>14</u>			<u>SAND fine to medium grained</u>	<u>dk. brown</u>	<u>medium dense</u>	<u>moist</u>		
4		<u>S3</u>	<u>1.4</u>	<u>11</u>			<u>w/ trace silt</u>					
5			<u>2.0</u>	<u>10</u>	<u>1.0</u>							
6			<u>70%</u>	<u>14</u>				<u>Brown</u>	<u>medium dense</u>	<u>Wet</u>		
7			<u>1.3</u>	<u>3</u>								
8			<u>2.0</u>	<u>5</u>	<u>1.1</u>							
9			<u>9</u>	<u>9</u>								
10			<u>65%</u>	<u>15</u>			<u>END OF BORING</u>					

DRILLING CO.: Hardin Huber, Inc

BAKER REP.: J. E. Zimmerman, Jr

DRILLER: Terry Mize

BORING NO.: Area A SB # 36 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 #

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>8-27-92</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	Sample ID	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	MNU 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>1.1</u>	<u>SILT w/ some sand</u>	<u>yellow/gray</u>	<u>Loose</u>	<u>DRY GRAVEL</u>		
<u>1</u>		<u>R-N</u>	<u>1.6</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</u>		
<u>2</u>			<u>2.0</u>	<u>11</u>		<u>1.2</u>				<u>Laminations</u>		
<u>3</u>			<u>80%</u>	<u>7</u>								
<u>4</u>		<u>S3</u>	<u>1.2</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>2.0</u>	<u>10</u>								
<u>6</u>			<u>60%</u>	<u>10</u>								
<u>7</u>			<u>1.3</u>	<u>2</u>				<u>Brown</u>	<u>medium dense</u>	<u>Wet</u>		<u>WOG</u>
<u>8</u>			<u>2.0</u>	<u>6</u>		<u>1.2</u>						
<u>9</u>			<u>9</u>	<u>9</u>								
<u>10</u>			<u>65%</u>	<u>16</u>			<u>END of Boring</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

CLEJ-01272-3.13-08/20/93

PROJECT: Leat 201

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		
1						SILT w/ some sand	buff	loose	Moist		
2						SAND fine grained w/ trace silt	DK Brown	to			
3							to	medium	to		
4							lite Brown	dense	wet		
5						END of Boring					
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc

BAKER REP.: J.E. Zimmerman, JR

DRILLER: Terry Mize

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

PROJECT: Lot 201

S.O. NO.: 19133

BORING NO.: SB # 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 1/4" 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. 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			12		SILT w/ some sand SAND fine grained w/ trace silt	Buff yellow/ brown to light gray	Loose medium dense	Moist Gravel			
2			13						1.2		
3			10			DK. Brown	medium dense	Moist			
4			8						1.2		
5			6			DK Brown to light brown	medium dense	Wet			
6			5						1.4		
7			7		END of Boring						
8			7								
9			10								
10			11								

DRILLING CO.: Hardin Huber, Inc.

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

DRILLER: Terry Mize

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

D.2
Grid 201B

PROJECT: SITE 6
 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>								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>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 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	
											R O C K
1		S-1									
		A-NS									
2		S-2	9								
3		S-2	6								
4		S-3	7								
5		S-3	4								
6		S-4	4								
7		S-4	4								
8		S-5	8								
9		S-5	7								
10											

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

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

PROJECT: SITE 6 201 201 11111 11111
 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
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
1 3/8" I.D.			3/4" I.D.		8/26/92	7.0'	SUNNY 85°-90°F	7.0'	TOB
LENGTH	2.0'		5.0'						
TYPE	STD		HS4						
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 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	0.5 1.0	S-1 A-NS				0	SAND, FINE GRAINED, TRACE SILT, TRACE FILL	GRAY		DRY DAMP	1.0
2		S-2	1.2	4 4 3		0	SAND, FINE GRAINED, TRACE SILT		LOOSE		
3	3.0		60%				SAME AS ABOVE	BROWN			
4		S-3	1.4	3 4 5		0					
5	5.0		70%								
6		S-4	1.4	4 5 6		0	SAME AS ABOVE	LT. BROWN	MED. DENSE	MOIST	
7	7.0		70%	5						WET, WATER TABLE AT 7.0	
8							END OF BORING	AT	7.0'		
9											
10											

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

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

PROJECT: SITE 6
 S.O. NO.: 19133-50-SRN BORING NO.: SB3
 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>8/26/92</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>HS4</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				0	SAND, FINE GRAINED, TRACE SILT, SOME FILL	GRAY		DRY		
1.0		A-NS								DAMP		
2		S-2	1.8	14		0	SAND, FINE GRAINED, TRACE SILT	BROWN GRAY	MED. DENSE	MOIST		
3			90%	7				BROWN				
4		S-3	1.8	6		0	SAME AS ABOVE					
5			90%	6								
6		S-4	1.4	5		0	SAME AS ABOVE	LT BROWN				
7			70%	5						WET WATER TABLE AT 6.5' - 7.0'		
8				5			END OF BORING AT	AT	7.0'			
9				6								
10				9								

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK
 DRILLER: CHARLES CATHAM BORING NO.: SB3 SHEET 1 OF 1

PROJECT: SITE 6
 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
SIZE (DIAM.)	<u>1 3/8" I.D.</u>	CASING	AUGERS	CORE BARREL	<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>HSI#</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. & %)						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>															
2		<u>S-2</u>	<u>2.0</u>														
3	<u>3.0</u>		<u>100</u>														
4																	
5																	
6																	
7																	
8																	
9																	
10																	

DRILLING CO.: HARWIN-HUBER, INC. BAKER REP.: R. SEVCIK
 DRILLER: CHARLES CHISUM BORING NO.: SB4 SHEET 1 OF 1

PROJECT: SITE 6
 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>3/4" 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>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' - 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. & %)
0.5		S-1									
1.0		A-NS			SAND, FINE GRAINED	GRAY		DRY DAMP			
2.0		S-2	1.1		TRACE, SILT		MED. DENSE				
3.0			55%			LC BANN					
4.0		S-3	1.4		SAME AS ABOVE		LOOSE				
5.0			70%					MOIST			
6.0		S-4	2.0		SAME AS ABOVE	GRAY		WET WATER AT 6.0'			
7.0			100%							7.0	
8.0					END OF BORING AT	7.0'					
9.0											
10.0											

DRILLING CO.: HARWIN-HUBER, INC. BAKER REP.: R. SEVCIK
 DRILLER: CHARLES CITSUM BORING NO.: SBS SHEET 1 OF 1

PROJECT: SITE 6 1

S.O. NO.: 19133-50-SRN

BORING NO.: SB6

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 1/4" 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>HS4</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 & %)
0.5		S-1									
1.0		A-NS									
2.0		S-2	9		SAND, FINE GRAINED, TRACE FILL, TRACE SILT	GRAY					
3.0			8		SAND, FINE GRAINED, TRACE SILT	LT. BROWN	MED. DENSE				
4.0		S-3	5		SAME AS ABOVE	BLACK GRAY	LOOSE				
5.0		S-4	4								
6.0			7		SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	BROWN					
7.0		S-4	3		SAND, FINE GRAINED, TRACE SILT	LT. BROWN	LOOSE				
8.0			4								
9.0			4								
10.0			3								
					END OF BORING AT		7.0'				

DRILLING CO.: HARWIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB6

SHEET 1 OF 1

PROJECT: SITE 6

S.O. NO.: 19133-50-SRN

BORING NO.: SB7

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 1/4" I.D.</u>		<u>8/28/92</u>	<u>5.0</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>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	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. & %)	Per. Rate
0.5		S-1									
1.0		A-NS			SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	BLACKISH BROWN		RAY DAMP			
2.0		S-2	4		SAND, FINE GRAINED, SOME SILT	BROWN	MO. DENSE				
3.0			6	0	TRACE ORGANICS	GRAY		MUST MET WATER AT 3.0'			
4.0		S-3	6		SAME AS ABOVE						
5.0			7	0					5.0		
5.0			10								
6.0					END OF BORING AT 5.0'	AT	5.0'				
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARWIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB7

SHEET 1 OF 1

PROJECT: SITE 6 L₁, N₁, H₁ -
 S.O. NO.: 1913-50-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>3/4" I.D.</u>		<u>9/29/92</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>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	
	ROCK	Type No. (N = No Samp.)	RQD (Ft & %)	Pen. Rate							PID (ppm)
0.5		S-1									
1.0		A-NS			<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BLACK</u>		<u>DAMP</u>			
2.0			4		<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BROWN</u>	<u>LOOSE</u>	<u>MOIST</u>			
3.0			4					<u>WET, WATER AT 2.5'</u>		<u>3.0</u>	
4.0					<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>				
5.0											
6.0											
7.0											
8.0											
9.0											
10.0											

PROJECT: SITE 6
 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>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. (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	
0.5		S-1					SAND, FINE GRAINED, TRACE SILT	BLACKISH		DRY DUMP	
1.0		A-NS					TRACE ORGANICS	BROWN			
2.0		S-2	2.0	4			SAND, FINE GRAINED, TRACE SILT		LOOSE	MUST	
3.0			100%	3						WET WATER AT 2.5'	3.0
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC. BAKER REP.: R. SEVCIK
 DRILLER: CHARLES CHISUM BORING NO.: SB9 SHEET 1 OF 1

PROJECT: SITE 6 L
 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>								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>2.0</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 (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>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BRICKISH BROWN GRAY</u>	<u>LOOSE</u>	<u>DAMP MUST WET WATER AT 2.0'</u>		
2	<u>1.0</u>	<u>A-NS</u>		<u>4</u>								
3		<u>S-2</u>	<u>2.0</u>	<u>4</u>		<u>0</u>						
3	<u>3.0</u>		<u>100%</u>	<u>3</u>								<u>3.0</u>
4							<u>END OF BORING AT</u>	<u>3.0'</u>				
5												
6												
7												
8												
9												
10												

DRILLING CO.: HARWIN-HUBER, INC. BAKER REP.: R. SEVCIK
 DRILLER: CHARLES CHISUM BORING NO.: SB10 SHEET 1 OF 1

PROJECT: SITE 6
 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>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	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	0.5	S-1									
	1.0	A-NS									
2		S-2	1.4	3	SAND, FINE GRAINED TRACE SILT	LT. BROWN	LOOSE	DAMP	5.0		
3	3.0		70%	3							
4		S-3	1.4	4	SAME AS ABOVE	BROWN	LOOSE	MAY BE WET WATER AT 4.0'	5.0		
5	5.0		70%	4							
6					END OF BORING	AT	5.0				
7											
8											
9											
10											

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

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

PROJECT: SITE 6
 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>								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</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>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. (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
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				5									
4													
5													
6													
7													
8													
9													
10													

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

PROJECT: SITE 6
 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 1/4" I.D.</u>		<u>9/24/92</u>	<u>7.0'</u>	<u>SUNNY 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>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'-7' 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	<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, TRACE FILL</u>	<u>GRAY</u> <u>ORANGE BROWN</u>	<u>---</u>	<u>DRY</u> <u>DAMP</u>	
2		<u>S-2</u>	<u>1.0</u>	<u>7</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</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>7</u>		<u>0</u>	<u>SAME AS ABOVE</u>	<u>GRAY</u> <u>W/ORG MATTER</u>		<u>MOIST</u>	
5	<u>5.0</u>		<u>70%</u>	<u>4</u>							
6		<u>S-4</u>	<u>1.4</u>	<u>5</u>		<u>0</u>	<u>SAME AS ABOVE</u>		<u>LOOSE</u>		
7	<u>7.0</u>		<u>70%</u>	<u>6</u>						<u>WET WATER AT 6.75'</u>	<u>7.0</u>
8							<u>END OF BORING</u>	<u>AT</u>	<u>7.0'</u>		
9											
10											

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

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

PROJECT: SITE 6 L

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 1/4" I.D.</u>		<u>8/24/12</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	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, TRACE ORGANICS</u>	<u>GRAY</u>		<u>DRY BRMP</u>		
2		<u>S-2</u>	<u>1.4</u>	<u>4</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>		<u>LOOSE</u>			
3	<u>3.0</u>		<u>70%</u>	<u>9</u>								
4		<u>S-3</u>	<u>1.4</u>	<u>5</u>		<u>0</u>	<u>SAME AS ABOVE</u>	<u>GRAY</u>	<u>MED. DENSE</u>			
5	<u>5.0</u>		<u>70%</u>	<u>7</u>						<u>MOST</u>		
6		<u>S-4</u>	<u>1.3</u>	<u>7</u>		<u>0</u>	<u>SAME AS ABOVE</u>	<u>GRAY</u>				
7	<u>7.0</u>		<u>65%</u>	<u>7</u>						<u>WET WATER AT 7.0'</u>		
8							<u>END OF BOREHOLE AT</u>		<u>7.0'</u>			
9												
10												

DRILLING CO.: HARDIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB14

SHEET 1 OF 1

PROJECT: SITE 6
 S.O. NO.: 19133-50-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 1/4" 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 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					SAND, FINE GRAINED, TRACE SILT, TRACE FILL	DR. GRAY		DRY DAMP		0.5
2		S-2	1.4	15			SAND, FINE GRAINED, TRACE SILT	DR. GRAY	MED. DENSE			
3			20%	7								
4		S-3	2.0	5					LOOSE			4.0
5			100%	7			SAND, FINE GRAINED, LITTLE ORGANICS, TRACE SILT	BROWN				4.5
6		S-4	1.9	3			SAND, FINE GRAINED, TRACE SILT		LOOSE	MOIST		
7			95%	3				GRAY		WET WATER		7.0
8							END OF BORING	AT	7.0'			
9												
10												

PROJECT: SITE 6 LO

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	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		S-1							6.5	
1.0		A-NS							1.0	
1.5			7						1.5	
2.0			8							
3.0		S-2	10							
4.0			8							
4.5			7							
5.0		S-3	7							
5.5			6							
6.0			4							
6.5			7							
7.0		S-4	8						7.0	
7.5										
8.0										
9.0										
10.0										

DRILLING CO.: HARDIN-HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB-16

SHEET 1 OF 1

PROJECT: SITE 6 U

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>								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 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	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, SOME FILL</u>	<u>GRAY</u>		<u>DAY DAMP</u>	
	<u>1.0</u>	<u>ANS</u>						<u>GRAY</u>	<u>MED. DENSE</u>		
2			<u>1.4</u>	<u>9</u>			<u>SAND, FINE GRAINED, LITTLE CLAY, TRACE SILT</u>	<u>DR. BROWN</u>			
3	<u>3.0</u>	<u>S-2</u>	<u>80%</u>	<u>5</u>		<u>0</u>		<u>DR. BROWN</u>	<u>LOOSE</u>		
4			<u>1.4</u>	<u>3</u>			<u>SAND, FINE GRAINED</u>	<u>DR. BROWN</u>	<u>LOOSE</u>	<u>MOIST</u>	
5	<u>5.0</u>	<u>S-3</u>	<u>70%</u>	<u>2</u>		<u>0</u>		<u>DR. BROWN</u>	<u>LOOSE</u>	<u>WET</u>	
6			<u>1.3</u>	<u>5</u>			<u>SAME AS ABOVE</u>	<u>GRAY</u>	<u>MED. DENSE</u>		
7	<u>7.0</u>	<u>S-4</u>	<u>65%</u>	<u>4</u>		<u>0</u>		<u>GRAY</u>	<u>MED. DENSE</u>		<u>7.0'</u>
8							<u>END OF BORING 7.0'</u>				
9											
10											

DRILLING CO.: HARDIN - HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB-17

SHEET 1 OF 1

PROJECT: SITE 6 20

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					
<u>1 3/8" I.D.</u>			<u>3/4" I.D.</u>		<u>8/24/92</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 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
					Pen. Rate	PID (ppm)						
1	<u>G.S</u>	<u>S-1</u>					<u>SAND, FINE GRAINED, TRACE SILT, SOME FILL</u>	<u>GRAY</u>		<u>DRY DAMP</u>		
2	<u>1.0</u>	<u>MMS</u>					<u>SAND, FINE GRAINED, TRACE SILT</u>		<u>LOOSE</u>			
3	<u>3.0</u>	<u>S-2</u>	<u>50%</u>	<u>3 4 5</u>		<u>0</u>	<u>SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANICS</u>	<u>tan</u>		<u>MOIST</u>		<u>2.75</u>
4		<u>S-3</u>	<u>1.4</u>	<u>4 5 5</u>		<u>0</u>	<u>SAND, FINE GRAINED</u>	<u>tan</u>	<u>MOD. DENSE</u>			<u>7.0</u>
5	<u>5.0</u>	<u>S-4</u>	<u>70%</u>	<u>5 4 7</u>		<u>0</u>	<u>TRACE SILT</u>	<u>gray</u>		<u>WET</u>		
6			<u>1.2</u>	<u>5 4 7</u>		<u>0</u>						
7	<u>7.0</u>		<u>60%</u>	<u>9</u>								<u>7.0</u>
8							<u>END OF BORING AT</u>	<u>AT</u>	<u>7.0'</u>			
9												
10												

DRILLING CO.: HARDIN-HUBER
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK
 BORING NO.: SB-18 SHEET 1 OF 1

PROJECT: SITE 6 LC

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>									
	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>8/27/92</u>	<u>7.0'</u>	<u>SUNNY 45-90°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 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 (FL & %)	Pen. Rate						
0.5		S-1									
1.0		A-1NS				SAND, FINE GRAINED, LITTLE FILL, TRACE SILT	GRAY		DRY CLUMP		
2.0		S-2	11% 10	8		SAND, FINE GRAINED, TRACE SILT	DR. BROWN CLAY	MED. DENSE			
3.0			90% 12	10							
4.0		S-3	1.5 10	8		SAND, FINE GRAINED, LITTLE SILT, TRACE ORG. S	BROWN				3.5
5.0			75% 7	7							7.0
6.0		S-4	1.7 6	6		SAND, FINE GRAINED, TRACE SILT	BROWN	MED. DENSE	MOIST		
7.0			95% 10	8					WET WATER AT		7.0
8.0						END OF BORING AT		7.0'			

DRILLING CO.: HARDIN-HUBER

DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK

BORING NO.: SB-19 SHEET 1 OF 1

PROJECT: SITE 6 LO

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>8/27/92</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>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 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						
0.5		S-1									
1.0		AWS				SAND, FINE GRAINED, TRACE SILT, LITTLE FILL	GRAY		Dry		
2.0		S-2	110	10		SAND, FINE GRAINED, TRACE SILT	DK BROWN ORANGE	MED. DENSE			1.5
3.0			50%	8		SAND, FINE GRAINED, TRACE SILT					
4.0		S-3	1.0	10		SAND, FINE GRAINED, LITTLE SILT, TRACE GRAMS	GRAY		MOIST		3.5
5.0			50%	7		SAND, FINE GRAINED	DK BROWN	MED. DENSE			
6.0		S-4	1.0	6		TRACE SILT			WET, WATER TABLE		
7.0			50%	6			GRAY				7.0
8.0				8		END OF BORING	AT	7.0'			
9.0											
10.0											

DRILLING CO.: HARDIN - HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB-20

SHEET 1 OF 1

PROJECT: SITE 6 20

S.O. NO.: 19133-50-SRN

BORING NO.: SB21

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>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.	ELEVATION	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)
0.5		S-1				0	SAND, FINE GRAINED, SOME FILL	GRAY		DRY	
1.0							LITTLE SILT	BLACK	MED. DENSE	DAMP	
2.0		S-2	1.3	8		0	SAND, FINE GRAINED	GRAY			
3.0			65%	6			LITTLE SILT			2.75	
3.0				6			SAND, FINE GRAINED, LITTLE SILT, TRACE GRASS	BROWN LT. BROWN	LOOSE	3.12	
4.0		S-3	2.0	4		0		GRAY	LOOSE	MOIST	
5.0			100%	5			SAND, FINE GRAINED				
6.0		S-4	2.0	4		0	TRACE SILT		MED. DENSE	WET, WATER TABLE NOTED	
7.0			100%	7						7.0	
8.0							END OF BORING	AT	7.0'		
9.0											
10.0											

DRILLING CO.: HARDIN-HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB21

SHEET 1 OF 1

PROJECT: SITE 6 W

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>									
	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 1/4" I.D.</u>		<u>8/27/92</u>	<u>7.0'</u>	<u>SUNNY 85-90°F</u>	<u>5.0'</u>	<u>TOP</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. & %)
1	0.5	S-1			SAND, FINE GRAINED, TRACE SILT, SOME FILL	GRAY		Dry			
	1.0					BLACK	MED. DENSE	DAMP			
2		S-2	13		SAND, FINE GRAINED, TRACE SILT					2.5'	
3	3.0		67		SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	DK BROWN	MED. DENSE	MOIST		3.0'	
4		S-3	9		SAND, FINE GRAINED	BROWN					
5	5.0		6		TRACE SILT	GRAY		WET, WATER TRACE NOTED			
6		S-4	12								
7	7.0		11								
8					END OF BORING	AT	7.0'				
9											
10											

DRILLING CO.: HARDIN - HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB 22 SHEET 1 OF 1

PROJECT: SITE 6 LC

S.O. NO.: 19133-50-SRN

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: SB23

NORTH: _____

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>8/29/92</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 (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	Grey		Dry	
	1.0	A-NS					SILT, TRACE ORGANICS	Black	MED. DENSE	DAMP	
2		S-2	1.2	7		0	SAND, FINE GRAINED	Grey			
3	3.0		60%	6			TRACE SILT	Grey			2.75'
4		S-3	1.6	5		0	SAND, FINE GRAINED, SOME SILT, LITTLE ORGANICS	Brown	MED. DENSE	MOIST	
5	5.0		80%	7			SAND, FINE GRAINED, TRACE SILT			WET, WATER TABLE NOTED	5.0
6							END OF BORING	AT	5.0'		
7											
8											
9											
10											

DRILLING CO.: HARDIN-HUBER

DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK

BORING NO.: SB23 SHEET 1 OF 1

PROJECT: SITE 6 LO

S.O. NO.: 19133-50-SKN

COORDINATES: EAST: _____

SOUTH: _____

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" F.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>7:03</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	
0.5		S-1				0	SAND, FINE GRAINED, TRACE SILT	GRAY		DRY	5.0
1.0		A-MS						BROWN	MED. DENSE	DAMP	
2		S-2	0.9	64		0	SAME AS ABOVE	GRAY w/ orange mottling		WET, WATER TRACE NOTED.	5.0
3	3.0		45%	9							
4		S-3	1.0	64		0					
5	5.0		50%	7			END OF BORING AT	AT	5.0'		
6											
7											
8											
9											
10											

DRILLING CO.: HARDIN - HUBER
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK
 BORING NO.: SB24 SHEET 1 OF 1

PROJECT: SITE 6 U

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>3/4" I.D.</u>		<u>8/27/72</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 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 & %)
1	0.5 1.0	S-1 A-NS									
2		S-2	108 7		SAND, FINE GRAINED TRACE SILT	Dk. Grey lt. Brown	MED. DENSE	DRY DAMP			
3	3.0		7 8								
4		S-3	0.2 3			Grey		MOIST		4.0	
5	5.0		4 7 3		SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	Dk. Brown lt. Brown		WET, WATER TABLE NOTED		5.0	
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 13 SHEET 1 OF 1

PROJECT: SITE 6 LC

S.O. NO.: 19133-50-SRN

BORING NO.: SB26

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>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.)									Samp. Rec. (Ft. & %)
0.5		S-1									
1.0		A-NB									
2.0		S-2	6		SAND, FINE GRAINED, TRACE SILT, LITTLE ORGANICS	GRAY	MED. DENSE				
3.0			11		SAND, FINE GRAINED, TRACE SILT						
4.0		S-3	7					MOIST			
5.0			8								
			50%		SAND, FG, T. SILT, T. ORGANICS	BRN/SL				MET. WATER TABLE NOTED 5.0	
					END OF BORING AT 5.0'						

DRILLING CO.: HARDIN-HUBER
 DRILLER: CHARLES CHISUM

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

PROJECT: SITE 6 LC

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>9/27/92</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		
0.5		S-1				0	SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANICS	GRAY		DRY STMP		
1.0												
2.0		S-2	110	10		0	SAND, FINE GRAINED, TRACE SILT	GRAY	MED. DENSE			
3.0			50/70	7								
4.0		S-3	114	3		0	SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANICS	DRY SAND GRAY	LOOSE	MOIST		
5.0			70/70	6						WET, WATER TABLE AT 5.0'		
6.0							END OF BORING	AT	5.0'			
7.0												
8.0												
9.0												
10.0												

DRILLING CO.: HARDIN - HUBER
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK
 BORING NO.: SB 27 SHEET 1 OF 1

PROJECT: SITE 6 LC

S.O. NO.: 19133-50-SRN

BORING NO.: 2828

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>8/28/72</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	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.)	Samp. Rec. (Ft. & %)	RQD (FL & %)							
0.5		S-1			0	SAND, FINE GRAINED, LITTLE SILT, SOME FILL	GRAY		DRY		
1.0		A-NS					BLACK LT BROWN	MED. DENSE	DAMP		
2		S-2	1.9		0	SAND, FINE GRAINED TRACE SILT	DK. GRAY				
3.0			9.5				BLACK		MOIST		
4		S-3	2.0		0			LOOSE			
5.0			100.0				GRAY				5.0
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 28 SHEET 1 OF 1

PROJECT: SITE 6 20

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>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	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	0.5 1.0	S-1 A-NS			SAND, FINE GRAINED, TRACE SILT	LT BROWN	Loose	Dry DAMP			
2		S-2	1.4 3 4 3								
3	3.0		3		SAME AS ABOVE	GRAY		MAY WET, WATER TABLE NOTED			
4		S-3	1.0 4 3 3								
5	5.0		3							5.0	
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 29 SHEET 1 OF 1

PROJECT: SITE 6 LC

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>								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 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	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		S-1									
1.0		A-NS									
2.0			7								
3.0		S-2	7								
			100%								
4.0			3								
			3								
5.0		S-3	3								
			4								
			100%								
END OF BORING AT 5.0'											

DRILLING CO.: HARDIN-HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB 30 SHEET 1 OF 1

PROJECT: SITE 6 US.O. NO.: 19133-50-SRNBORING 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>8/27/72</u>	<u>5.0'</u>	<u>SUNNY 45-70°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 ROCK	ELEVATION
DEPTH	SOIL ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5' RQD (Ft. & %)	Lab. Class. Pen. Rate PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	Weathering, Bedding, Fracturing, and Other Observations		
											0.5	
1.0		A-NS										
1.2				4		SAND, FINE GRAINED, TRACE SILT	BROWN	LOOSE	DAMP			
2.0		S-2		4	0							
3.0			60%	9			GRAY	RED DENSE	MOIST MET, WATER AT 4.0'			
3.2				8								
4.0		S-3		5	0							
4.2			60%	7								
5.0						END OF BORING	AT	5.0'				5.0'
6.0												
7.0												
8.0												
9.0												
10.0												

DRILLING CO.: HARDIN - HUBERBAKER REP.: R. SEVCIKDRILLER: CHARLES CHISUMBORING NO.: SB31SHEET 1 OF 1

Baker Environmental, Inc.

PROJECT: SITE 6 LC

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>8/27/92</u>	<u>5.0</u>	<u>SUNNY 45-90°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 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>0.5</u> <u>1.0</u>	<u>S-1</u> <u>A-NS</u>				<u>0</u>	<u>SAND, FINE GRAINED TRACE FILL, TRACE SILT</u>	<u>BROWN</u>		<u>DRY DIMP</u>		
2		<u>S-2</u>	<u>1.8</u> <u>90%</u>	<u>3</u> <u>5</u> <u>4</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>BROWN</u> <u>GRAY</u>	<u>LOOSE</u>	<u>MOIST</u>		
3	<u>3.0</u>		<u>1.8</u> <u>90%</u>	<u>3</u> <u>4</u> <u>4</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, T. ORGANICS</u>	<u>BROWN</u>		<u>WET, WATER TRACE NOTED</u>		<u>5.0</u>
4	<u>5.0</u>	<u>S-3</u>					<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
5												
6												
7												
8												
9												
10												

DRILLING CO.: HARDIN-HUBER
DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK
BORING NO.: SB32 SHEET 1 OF 1

PROJECT: SITE 6 LC

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>8/25/92</u>	<u>5.0</u>	<u>SUNNY 45-90°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 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						
0.5		S-1									
1.0		A-NS				<u>SAND, FINE GRAINED, TRACE SILT, TRACE FILL</u>	<u>GRAY</u>		<u>DRY</u>		
2		S-2	<u>1.4</u>	<u>10</u>		<u>SAND, FINE GRAINED</u>	<u>BLACK</u>	<u>MED. DENSE</u>	<u>DAMP</u>		
3			<u>70%</u>	<u>11</u>		<u>TRACE SILT</u>	<u>LT BROWN</u>		<u>MOIST</u>		
4		S-3	<u>1.4</u>	<u>4</u>			<u>GRAY</u>	<u>LOOSE</u>			<u>4.2</u>
5			<u>70%</u>	<u>4</u>		<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>BROWN GRAY</u>		<u>WET WATER TABLE NOTED AT 4.8</u>		<u>5.0</u>
5.0						<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

CLEJ-01272-3.13-08/20/93

PROJECT: _____
 S.O. NO.: 19133
 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>3.25" 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>30"</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.		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	<u>0.35</u> <u>2.0</u>	<u>7</u> <u>5</u>			SAND, Fine grained, trace SILT	<u>Grey</u>	<u>Loose</u>	<u>Damp</u>		
2			<u>17%</u> <u>2.0</u>	<u>3</u> <u>6</u>			SAND, Fine grained, trace SILT	<u>Grey</u>	<u>Medium dense</u>	<u>Damp</u>		
3		S-2	<u>1.8</u> <u>2.0</u>	<u>6</u> <u>6</u>			NOTE: LITTLE SILT AT 3.5'					
4			<u>90%</u> <u>2.0</u>	<u>11</u>			SAND, Fine grained, LITTLE SILT	<u>White</u>	<u>Medium dense</u>	<u>MOIST</u>		
5		S-3	<u>1.6</u> <u>2.0</u>	<u>4</u> <u>4</u>								
6			<u>50%</u> <u>2.0</u>	<u>7</u>			Sand, fine grained, LITTLE SILT	<u>Brown</u>	<u>Loose</u>	<u>wet, groundwater at 6.5'</u>		
7		S-4	<u>1.8</u> <u>2.0</u>	<u>3</u> <u>3</u>			NOTE: SOME SILT AT 6.5'					
8			<u>10%</u> <u>2.0</u>	<u>9</u>			END OF BORING AT 8.0'	<u>8.0'</u>				<u>8.0</u>
9												
10												

DRILLING CO.: Baker Environmental, Inc.
 DRILLER: C. Chism

BAKER REP.: J. Luper
 BORING NO.: 6SB32.11 SHEET 1 OF 1

PROJECT: SITE 6 20

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>					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 45-90°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 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						
0.5		S-1									
1.0		A-NS									
2.0		S-2	1.6	7		<u>SAND, FINE GRAINED, LITTLE SILT, TRACE ORGANICS!</u>	<u>GRAY</u>	<u>DRY</u>			
3.0		S-3	80%	7		<u>SAND, FINE GRAINED TRACE SILT</u>	<u>BLACK</u>	<u>MED. DENSE</u>	<u>DAMP</u>		
4.0		S-3	1.4	5		<u>SAND, FINE GRAINED TRACE SILT</u>	<u>GRAY</u>		<u>MOIST</u>		
5.0		S-3	70%	3		<u>SAND, FINE GRAINED TRACE SILT</u>			<u>WET, WITH TRACE NOTED AT 3.75'</u>		<u>5.0'</u>
6.0						<u>END OF BORING AT 5.0'</u>	<u>AT</u>	<u>5.0'</u>			

DRILLING CO.: HARDIN-HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB 34 SHEET 1 OF 1

PROJECT: SITE 6 LO

S.O. NO.: 19133-50-SKN

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: _____

NORTH: _____

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 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 / 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	0.5	S-1				0	SAND, FINE GRAINED, TRACE SILT	Gray	LOOSE	DRY DAMP		
	1.0	A-NS										
2		S-2	2.0	3		0	SAME AS ABOVE	BLACK LT. GRAY	MOIST	NET, WATER TABLE NOTED		
3	3.0		100%	4								
4		S-3	1.4	5		0						
5	5.0		95%	4								5.0
6							END OF BORING	AT	5.0'			
7												
8												
9												
10												

DRILLING CO.: HARDIN - HUBER

DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK

BORING NO.: SB35

SHEET 1 OF 1

PROJECT: SITE 6 LO

S.O. NO.: 19133-50-SRN

BORING NO.: SB36

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 45-90°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 ROCK	Sample ID Type-No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT	Lab. Class.		Classification (Name, 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	PID (ppm)						
0.5		S-1					SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	GRAY		DRY		
1.0		A1N5					SAND, FINE GRAINED, TRACE SILT		LOOSE	DAMP		
2		S-2	1.8	4			SAND, FINE GRAINED, TRACE SILT					
3		S-2	90%	4			SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	BROWN		MOIST		2.5'
4		S-3	1.7	3			SAND, FINE GRAINED, TRACE SILT	GRAY				3.0'
5		S-3	85%	4			SAND, FINE GRAINED, TRACE SILT					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.: SB36

SHEET 1 OF 1

PROJECT: SITE 6 LO

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 45-90°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.	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</u>	<u>GRAY</u>	<u>MEP. DENSE</u>	<u>DRY</u>	
	<u>1.0</u>	<u>A-NS</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>					
4			<u>1.4</u>	<u>3</u>				<u>LOOSE</u>		<u>MOIST</u>	
5	<u>5.0</u>	<u>S-3</u>	<u>70%</u>	<u>7</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>DRY</u>		<u>WET, WATER TABLE NOTED.</u>	<u>4.0</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.: SB 37 SHEET 1 OF 1

PROJECT: SITE 6
 S.O. NO.: 19133-50-SRN BORING NO.: SB38
 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>8/31/92</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. (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 SILT, TRACE ORGANICS</u>	<u>BLACK</u>		<u>DRY</u>		
	<u>1.0</u>	<u>A-NS</u>									
2		<u>S-2</u>	<u>1.9</u>	<u>3</u>		<u>SAND, FINE GRAINED TRACE SILT</u>	<u>DK. GRAY</u>	<u>LOOSE</u>	<u>MUST BE WETTER AT 2.0'</u>		
3	<u>3.0</u>		<u>95%</u>	<u>3</u>	<u>0</u>					<u>30</u>	
4						<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>			
5											
6											
7											
8											
9											
10											

PROJECT: SITE 6 LOT ADJ. UNPROCESSED REFS. UNIT 420201-2
 S.O. NO.: 19133-50-SRN BORING NO.: SB39
 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>8/31/92</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				
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 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>1.1</u>	<u>6</u>				<u>MED. DENSE</u>			
3	<u>3.0</u>		<u>55%</u>	<u>4</u>			<u>BROWN</u>		<u>MOIST</u>		
4		<u>S-3</u>	<u>1.5</u>	<u>3</u>							
5	<u>5.0</u>		<u>75%</u>	<u>4</u>	<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>DK. BROWN</u>	<u>LOOSE</u>			
6		<u>S-4</u>	<u>1.7</u>	<u>4</u>		<u>SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY</u>	<u>LT BROWN</u>		<u>DAMP</u>		
7	<u>7.0</u>		<u>95%</u>	<u>5</u>							
8		<u>S-5</u>	<u>2.0</u>	<u>4</u>		<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>	<u>LOOSE</u>	<u>DAMP</u>		
9	<u>9.0</u>		<u>100%</u>	<u>5</u>	<u>0</u>				<u>MOIST WET WATER AT</u>	<u>9.0</u>	
10						<u>END OF BORING</u>	<u>AT</u>	<u>9.0'</u>			

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

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

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: SITE 6 U

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
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>6.0'</u>	<u>SUNNY 45-90°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	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		S-1	0.6	9		SAND, FINE GRAINED, TRACE SILT	LT BROWN	MED. DENSE	DAMP		
2	2.0		30%	8				BROWN		MOIST	
3		S-2	2.0	3		SAME AS ABOVE		LOOSE			
4	4.0		100%	4				GRAY			
5		S-3	2.0	6		SAME AS ABOVE		MED. DENSE	WET, WHITE TABLE NOTED AT 4.25'		
6	6.0		100%	8							6.0
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

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: SITE 6 LOT 201 PHEN ...
 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>								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>8/31/92</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. (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	
0.5		S-1				0	SAND, FINE GRAINED, TRACE SILT	LT BROWN		DAMP	
1.0		A-NS						LC BROWN			
1.5				5			SAND, FINE GRAINED, TRACE SILT, LITTLE ORGANICS	LT BROWN	MED DENSE	MOIST	
2.0		S-2		7		0		LC BROWN			
2.5			75%	9			SAND, FG, T. SILT	LC BROWN		WATER AT 2.75'	2.75
3.0							END OF BORING	AT	3.0'		
4											
5											
6											
7											
8											
9											
10											

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

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

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 Area C RIFTS Camp Lejeune
 S.O. NO.: 19133 BORING NO.: SB # 2
 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		8-28-92	11'	Sunny / windy		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 11' 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		HNU PID (ppm)	Color	Hardness		
1		SI A-N				SILT w/ some sand	yellow buff	Loose	DRY Gravel		
2			15/20	8		SAND fine grained w/ trace silt	yellow + lite gray + lite brown	medium dense	Moist		
3			75% 1.3/20	9					Laminations		
4			65% 1.3/20	3			Brown to lite gray + DK brown	Loose	Moist		
5			65% 1.7/2.0	4		SAND fine grained	DK Brown to lite Brown	Loose to medium dense	Moist		
6			85% 1.8/2.0	3							
7			90% 1.3/20	4			lite gray	medium dense	Moist		
8		SS	90% 1.3/20	6							
9			65% 1.3/20	4							
10			65%	10		END of Boring	lite gray	medium dense	Wet		Wat 10

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

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

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 Area C KIP's Camp Lejeune

S.O. NO.: _____

BORING NO.: SB #3

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
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		S1				1.1	SILT w/ some sand	yellow buff	Loose	Dry Root material, Gravel		
2			1.3 / 2.0	12		1.1	SAND fine grained w/ trace silt	lite gray to Brown to lit Brown	medium dense	Moist		
3			65%	6				lit Brown		Moist		
4			1.5 / 2.0	5		1.2		lite Brown to lite gray	Loose			
5			75%	4							
6		S4	.9 / 2.0	4		1.1	SAND fine grained	lite Brown	Loose to medium dense	Moist		
7			45%	5								
8			1.4 / 2.0	4		1.1		lite gray	medium dense	Wet		wa 8
9			70%	12			END of Boring					
10												

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J. E. Zimmerman Jr.

DRILLER: Terry Miza

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

PROJECT: Lot 201 Area C King's Camp Levee
 S.O. NO.: 19133 BORING NO.: SB # 4
 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	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 sample
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	
		Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate						HNA PID (ppm)
1		S1				SILT w/ some sand	yellow/buff	Loose	Dry Gravel		
2			1.2/2.0	4		SAND fine grained w/ trace silt	yellow + lite gray	medium dense	Moist		
3			60%	5			Brown		Laminations		
4			1.2/2.0	2			lite Brown to lite gray	Loose	Moist		
5			60%	4							
6		S4	1.4/2.0	3		SAND fine grained	yellow/Brown to lite gray	Loose to medium dense	Moist		
7			70%	5			lite gray				
8			1.4/2.0	6				medium dense			
9			70%	6			lite gray	medium dense	Wet		
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

PROJECT: SITE 6 LUI A01 MKER
 S.O. NO.: 19133-50-SRN BORING NO.: SB5
 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>8/31/92</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>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	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
0.5		S-1									
1.0		A-NS									
2.0		S-2	5		SAND, FINE GRAINED, TRACE SILT	LT BROWN	MED. DENSE	DAMP MOST WET WATER AT 2.0'		3.0	
3.0		100%	7								
4.0			4		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.: SB5 SHEET 1 OF 1

PROJECT: SITE 6 LUI 201 AREA
 S.O. NO.: 1913-50-SRN BORING NO.: SB6
 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>8/31/92</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>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 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.)									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>								<u>1.0</u>	
2		<u>S-2</u>	<u>1.1</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>S-2</u>	<u>55</u>	<u>6 8 9</u>				<u>WET WATER AT 3.0'</u>		<u>3.0</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: CHARLES CITSUM

BAKER REP.: R. SEVCIK

BORING NO.: SB6

SHEET 1 OF 1

PROJECT: SITE 6 LOT 201 AREA RT/FS UNIT 23 & 2002
 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 1/4" 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, BOTTLE BROUGHT 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)						
1	<u>0.5</u>	<u>S-1</u>					<u>SAND, FINE GRAINED, TRACE CLAY, TRACE SILT</u>	<u>LT. BROWN</u>				<u>1.0</u>
	<u>1.0</u>	<u>A-NS</u>					<u>SAND, FG, T. SILT</u>	<u>BLACK</u>				<u>1.5</u>
2			<u>1.2</u>	<u>4</u>			<u>SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS</u>	<u>DRY BROWN</u>	<u>MED.</u>			<u>2.0</u>
		<u>S-2</u>		<u>5</u>			<u>SAND, FG, TRACE SILT</u>	<u>GRAY</u>	<u>DENSE</u>	<u>WET WATER AT</u>		<u>3.0</u>
3	<u>3.0</u>	<u>602</u>		<u>5</u>			<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>			
4												
5												
6												
7												
8												
9												
10												

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: SITE 6 LOT 201 AREA C KI/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>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8" I.D.</u>	CASING	<u>3/4" I.D.</u>	CORE BARREL	<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		
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)						Pen. Rate	PID (ppm)
1	<u>0.5</u>	<u>S-1</u>									
	<u>1.0</u>	<u>A-NS</u>			<u>SAND, FINE GRAINED</u>	<u>LT. BROWN</u>		<u>DAMP</u>			
2			<u>5</u>		<u>TRACE SILT</u>	<u>GRAY</u>	<u>LOOSE</u>	<u>MOIST</u>			
3	<u>3.0</u>	<u>S-2</u>	<u>750</u>		<u>SAND, FINE GRAINED, TRACE SILT, LITTLE ORGANICS</u>	<u>BROWN</u>		<u>WET</u>	<u>2.5</u>		
4								<u>WATER AT 3.0' 3.0</u>			
5					<u>END OF BORING AT 3.0'</u>						
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

PROJECT: SITE 6 LOT 201 AREA KLIFS CAMP UZJ BONE
 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>3/4" I.D.</u>		<u>8/30/72</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>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. BOTTLE 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
1		<u>S-1</u>									
		<u>A-NS</u>									
2			<u>1.7</u>	<u>3</u>							
		<u>S-2</u>									
3			<u>85%</u>	<u>4</u>							
		<u>S-3</u>									
4			<u>2.0</u>	<u>3</u>							
		<u>S-3</u>									
5			<u>100%</u>	<u>3</u>							
6											
7											
8											
9											
10											

PROJECT: SITE 6 LOI 201 AREA C. N/PS CAMP - 20012
 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
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 3/8" I.D.</u>			<u>3/4" 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>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 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	
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>	<u>WET WATER AT 2.8'</u>
3	<u>3.0</u>		<u>100%</u>	<u>2</u>							
4							<u>END OF BORING</u>	<u>AT</u>	<u>3.0'</u>		
5											
6											
7											
8											
9											
10											

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

BAKER REP.: R. SEVCIK
 BORING NO.: SB 10 SHEET 1 OF 1

PROJECT: SITE 6 LO.
 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 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 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. & %)	Per. Rate						PID (ppm)
0.5		S-1									
1.0		A-NS									
2.0		S-2	1.3	2							
3.0			65%	1							
4.0		S-3	0.5	3							
5.0			25%	4							
5.0				3						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.: SB 11 SHEET 1 OF 1

PROJECT: Lot 201 Area C RIFTS Camp Lejeune
 S.O. NO.: _____ BORING NO.: SB #12
 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		8-30-92	9'	Sunny/warm		
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

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				1.3 SILT w/ some sand	Buff	Loose	Dry Gravel Root material		
2			1.5/20	10		SAND fine grained w/ trace silt	Dk. Gray to lite gray	medium dense	MOIST		
3			75%	10	1.2						
4			1.3/20	4				Loose to medium dense			
5			65%	4	1.3		Brown	medium dense	MOIST		
6		S4	1.5/20	5		SAND fine grained					
7			75%	4	1.3		Brown	medium dense	MOIST orange streaks (oxidation)		
8			1.4/20	4			lite gray	medium dense	Wet		Wat 7/2
9			70%	9	1.2						
10				11		ENDS of Boring					

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

BAKER REP.: J.E. Zimmerman, Jr.
 BORING NO.: Area C SB#12 SHEET 1 OF 1

PROJECT: SITE 6 LOT NO. 1 AREA C 12/23 1991
 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>								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>8/31/92</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>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 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.)								RQD (Ft. & %)	Pen. Rate
1		<u>S-1</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT. BROWN</u>		<u>DRY DAMP MOST WET WATER AT 1.5'</u>			
2		<u>A-NS</u>	<u>7</u>			<u>GRAY MUNG MOTTLED</u>	<u>MED. DENSE</u>				
3	<u>3.0</u>	<u>S-2</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

PROJECT: Lot 201 Hilda C Riff Camp
 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	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						
1		S1 A-N				SILT w/ some sand	Buff	Loose	Dry Gravel		
2			1.0/2.0	6		SAND fine grained w/ trace silt	yellow + lite gray + Brown	Loose to medium dense	Moist		
3			50%	4					Laminations		
4		S3	1.2/2.0	3			lite Brown to lite gray	Loose	Moist		
5			60%	3							
6			1.0/2.0	3		SAND fine grained	lite gray	Loose			
7			50%	5					Wet		
8						END of Boring					
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

PROJECT: Lot 201 Area C K175 East of Highway
 S.O. NO.: 19133 BORING NO.: SB# 15
 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 9' 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.)	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			.8/20	10	1.2	SAND fine grained w/ trace silt	dk gray to lite gray	medium dense	Moist		
3				11							
4			1.2/2.0	3	1.2		lite brown to lite gray	medium dense	Moist		
5				5							
6		S4	1.3/2.0	2	1.2	SAND fine grained	lite gray	medium dense	Moist		
7				5							
8			1.4/2.0	4	1.2		lite gray to brown	medium dense	Wet		wa 7'
9				14							
10				17		END of Boring					

DRILLING CO.: Hardin Huber Inc
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Inc.
 BORING NO.: Area C SB# 15 SHEET 1 OF 1

PROJECT: Lot 201 Area C
 S.O. NO.: 19133 BORING NO.: SB #10
 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	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
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL / ROCK	Sample ID / Type No. (N = No Samp.)	SPT Blows Per 0.5' / RQD (Ft & %)	Lab. Class. / Pen. Rate	HWA 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 / 2.0	9		SILT w/ some sand	Buff	Loose	Dry Gravel		
2			65% / 2.0	10		SAND fine grained w/ trace silt	Dk. gray to lite gray to Dk Brown	medium dense	Moist		
3			1.1 / 2.0	10			lite Brown	medium dense	Moist		
4			55% / 2.0	6			lite Brown	medium dense	Moist		
5			1.3 / 2.0	4		SAND fine grained	lite Brown	medium dense	Moist		
6		S4	65% / 2.0	6			Dk. Brown gray	medium dense	Moist		
7			1.4 / 2.0	6			lite gray	medium dense	Laminations		
8			20% / 2.0	10			lite gray	medium dense	Wet		wa 7'
9				13		END of Boring					
10											

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

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

PROJECT: Lot 201 Area C K175 Camp Lejeune
 S.O. NO.: 19133 BORING NO.: SB # 17(1)
 COORDINATES: EAST: _____ NORTH: _____
 ELEVATION: SURFACE: _____ TOP OF PVC CASING: _____

RIG: <u>Mobile Drill 2</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>8-29-92</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	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	HMW PID (ppm)
1		SI A-N	10		SILT w/ some sand	buff	Loose	Dry Gravel, plant material			
2			9		SAND fine grained w/ trace silt	light gray to brown	medium dense	Moist			
3			7	1.1							
4			3			brown to light brown	Loose to medium dense	Moist			
5			3	1.1							
6		SA	2		SAND fine grained	brown to light brown	Loose	Moist			
7			4	1.1							
8			5			light brown to dark brown to gray	medium dense	Wet			
9			4	1.1				Lamination present			
10			8		END of Borehole						

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

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

PROJECT: Lot 201 Area C KILLS Camp Lejeune
 S.O. NO.: 1933 BORING NO.: SB #17(2)
 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		HSA						
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					SOIL ELEVATION	ROCK
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	HNU PID (ppm)	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	Buff	Loose	Dry Gravel, plant material			
2			1 1/2	9		1.1	SAND fine grained w/ trace silt	lite brown to lite gray to brown	medium dense	Moist			
3			55%	6									
4			1.6/2.0	1		1.1		brown	Loose	Moist			
5			80%	3									
6		S4	1.2/2.0	2		1.1	SAND fine grained	brown to lite brown	Loose	Moist			
7			60%	5									
8			1.3/2.0	4		1.1		lite brown & dk. brown & gray	medium dense	Wet		wa 7'	
9			65%	15						Laminations			
10							END OF BORING						

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

BAKER REP.: J.E. Zimmerman
 BORING NO.: Area C SB #17(2) SHEET 1 OF 1

PROJECT: SITE 6 LUI XUI MKEH C. NAYS CUMI - 202012
 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 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>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 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.)		RQD (Ft & %)							Pen. Rate
0.5		S-1									
1.0		A-NS			SAND, FINE GRAINED, TRACE SILT	LT. BROWN	LOOSE	DRY DAMP MUST WET WATER AT 1.25'			
2.0		S-2									
3.0										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.: SB 18 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 Area C K1112 Camp Lejeune

S.O. NO.: 19133

BORING NO.: SB #19

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

RIG: <u>Mobilo. 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					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	ROCK		
		Type - No. (N = No Samp.)	RQD (Ft & %)	Pen. Rate	HNU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations			
1		S1 H-N			1.2	SILT w/ some sand	Buff	Loose	Dry Gravel			
2			1.2/20		1.1	SAND fine grained w/ trace silt	lite gray to dark brown	medium dense	Moist			
3			60%									
4			1.4/20		1.2		lite gray to brown to lite brown	Loose to medium dense	Moist			
5			70%									
6		S4	1.4/20		1.3	SAND fine grained	lite gray	Loose	Moist			
7			70%									
8			1.5/20		1.3		lite gray	Loose	Moist			
9			70%									
10						END OF BORING					Water 7'	

DRILLING CO.: Hardin Huber, Inc.

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

DRILLER: Terry Mize

BORING NO.: Area C SB #19 SHEET 1 OF 1

PROJECT: Lot 201 Area C
 S.O. NO.: 19133 BORING NO.: SR # 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		HSA						
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.	H/NW 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 Gravel		
2			1.0/2.0	10		1.1	SAND fine grained w/ trace silt	light gray to dark brown	medium dense	Moist		
3			50%	9								
4			1.6/2.0	3		1.2		yellow/brown to light gray	medium dense	Moist		
5			80%	4								
6		S4	1.2/2.0	4		1.1	SAND fine grained	gray	medium dense	Moist		
7			60%	6								
8			1.7/2.0	3		1.0		gray to brown	medium dense	Wet		
9			85%	8								
10							END of Bor 20					

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman

BORING NO.: Area C SR # 20 SHEET 1 OF 1

PROJECT: Lot 201 Area C
 S.O. NO.: 19133 BORING NO.: SB # 21
 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		8-29-92	9'	Sunny/Warm		
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

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			1.1/20	8		SAND fine grained w/ trace silt	lt gray	medium dense	Moist		
3			55% 1.4/20	10							
4				9			lt gray to brown to dk brown	Loose	Moist		
5			70% 1.3/20	3							
6		S4		4		SAND fine grained	gray	Loose to medium dense	Moist		
7			65% 1.4/20	5							
8				2							
9			70% 1.4/20	4			gray	Loose to medium dense	Wet		
10				5		END OF BORING					

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

BAKER REP.: J.E. Zimmerman
 BORING NO.: Area C SB # 21 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201 Area
 S.O. NO.: 19133 BORING NO.: SB # 22
 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 7/8" ID		3/4" ID		8-29-92	9'	Sunny/Warm		
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

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
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1 R+N	1.3/20	8		1.0	SILT w/ some sand	Buff	Loose	Dry Gravel, Root material	
2			2.0	10		1.0	SAND fine grained w/ trace silt	DK gray to lite gray to DK brown	medium dense	Moist	
3			65% 1.6/2.0	10		1.1		DK brown to brown to lite brown	Loose to medium dense	Moist	
4			80% 1.3/2.0	4		1.1					
5			1.3/2.0	4		1.1	SAND fine grained	lite gray to brown to lite gray	Loose to medium dense	Moist	
6		S4	65% 1.1/2.0	3		1.1					
7			55%	4		1.1					
8				5		1.1		lite gray	medium dense	Wet	
9				3							
10				5			END of Boring				

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

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

PROJECT: SITE 6 LUI AUI MKEH
 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>								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>8/31/92</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>HS4</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 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		S-1									
1.0		A-NS			SAND, FINE GRAINED TRACE SILT	LT. BROWN	LOOSE	DRY DARK MAY WET WATER AT 1.25'			
2.0		S-2	3								
3.0			4						3.0		
			5								
			6								
			7								
			8								
			9								
			10								
					END OF BORING	AT	3.0'				

DRILLING CO.: Harwin-Huber, Inc.
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK
 BORING NO.: SB 23 SHEET 1 OF 1

PROJECT: SITE 6 L0

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>									
	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>8/29/92</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.	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		
0.5		S-1				0	SAND, FINE GRAINED, SOME FILL	GRAY		DRY		
1.0		A-1/S					TRACE SILT			DAMP		
2.0		S-2	100%	8		0	SAND, FINE GRAINED	LT. BROWN BLACK GRAY	MED. DENSE			
3.0			100%	8			TRACE SILT					
4.0		S-3	100%	3		0		BROWN	LOOSE	MOIST		
5.0			100%	4						WET, WATER TABLE NOTED 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.: SB 24 SHEET 1 OF 1

PROJECT: SITE 6 LO

S.O. NO.: 19133-50-SRN

BORING NO.: SB25

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>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	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		
0.5		S-1				0	SAND, FINE GRAINED, TRACE SILT, SOME FILL	gray		DRY		
1.0		A-NS										
2.0		S-2	0.6	14		0	SAND, FINE GRAINED, TRACE SILT		DENSE			
3.0			30%	14						DAMP		
4.0		S-3	1.5	3		0	SAME AS ABOVE	lt. brown	LOOSE			
5.0			75%	4						MOIST		
6.0		S-4	1.8	3		0	SAME AS ABOVE	gray		NET; WATER TABLE AT 5.25'		
7.0			90%	4								7.0
8.0							END OF BORING	AT	7.0			
9.0												
10.0												

DRILLING CO.: HARDIN - HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB25

SHEET 1 OF 1

PROJECT: SITE 6 20
 S.O. NO.: 19133-50-SRN BORING NO.: S13 26
 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>9/28/42</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 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	<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>0</u>	<u>SAND, FINE GRAINED</u>	<u>LT. BROWN</u>	<u>MED. DENSE</u>	<u>DAMP</u>	
3	<u>3.0</u>		<u>70%</u>	<u>5</u>			<u>TRACE SILT</u>				
4		<u>S-3</u>	<u>1.4</u>	<u>5</u>		<u>0</u>				<u>MOIST</u>	
5	<u>5.0</u>		<u>70%</u>	<u>6</u>						<u>WATER TABLE AT 5.0</u>	
6							<u>END OF BORING</u>	<u>HT</u>	<u>5.0'</u>		
7											
8											
9											
10											

DRILLING CO.: HARDIN - HUBER BAKER REP.: R. SEVCIK
 DRILLER: CHARLES CHISUM BORING NO.: SB26 SHEET 1 OF 1

PROJECT: SITE 6 20

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
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
<u>1 3/8" I.D.</u>			<u>3/4" I.D.</u>		<u>8/25/92</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>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		
0.5		S-1				SAND, FINE GRAINED, TRACE SILT, TRACE FILL	LT. BROWN		DRY DUMP		
1.0		A-NS									
1.8		S-2		4		SAND, FINE GRAINED, TRACE SILT		MED. DENSE			
2.0			90%	4							
3.0				3			BLACK	LOOSE	MOIST		
4.0		S-3		4			GRAY		WET, MATERIAL AT 4.75'		
5.0			100%	5							5.0
5.0						END OF BORING	AT	5.0'			

DRILLING CO.: HARDIN-HUBER
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK
 BORING NO.: SB27 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: SITE 6 LOT 101 AREA
 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>								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>8/31/92</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>HS#</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	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)
1	<u>0.5</u>	<u>S-1</u>					<u>0</u>	<u>SAND, FINE GRAINED, TRACE FILL, TRACE SILT</u>	<u>LT. BROWN</u>	<u>---</u>		
2	<u>1.0</u>	<u>A-MS</u>	<u>1.7</u>	<u>4</u>			<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GRAY</u>	<u>MED. DENSE</u>		
3		<u>S-2</u>	<u>7.5</u>	<u>6</u>			<u>0</u>					
4	<u>3.0</u>		<u>7</u>									<u>3.0</u>
5			<u>3</u>									
6								<u>END OF BORING AT</u>	<u>2.0</u>			
7												
8												
9												
10												

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

BAKER REP.: R. SEVCIK
 BORING NO.: SB28

SHEET 1 OF 1

PROJECT: SITE 6 20

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>8/29/72</u>	<u>5.0</u>	<u>SUNNY 45-90°F</u>	<u>5.0'</u>	<u>TOP</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.)	(Ft. & %)	RQD (FL & %)							Pen. Rate
1	<u>0.5</u>	<u>S-1</u>			<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT, SOME FILL</u>	<u>Light Brown</u>	<u>DRY</u>			
2	<u>1.0</u>	<u>S-2</u>	<u>7</u>		<u>0</u>	<u>SAND, FINE GRAINED</u>	<u>Blackish Gray Lt. Brown</u>	<u>MD DENSE</u>			
3	<u>3.0</u>	<u>S-3</u>	<u>10</u>		<u>0</u>	<u>TRACE SILT</u>	<u>Black</u>	<u>LOOSE</u>			
4			<u>6</u>				<u>DK Brown</u>	<u>MOIST</u>			
5	<u>5.0</u>		<u>5</u>					<u>WATER TABLE NOTED AT 5.0'</u>			
6			<u>4</u>			<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>			
7			<u>3</u>								
8											
9											
10											

DRILLING CO.: HARDIN - HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB 29

SHEET 1 OF 1

PROJECT: SITE 6 10

S.O. NO.: 19133-50-SRN

BORING NO.: SB30

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>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.	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 (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
0.5		S-1				0	SAND, FINE GRAINED, SOME FILL, TRACE SILT	LT. Brown		DRY		
1.0		N-NS								DAMP		
1.3				13								
2.0		S-2		10		0	SAND, FINE GRAINED TRACE SILT	DRY LT. Brown	MED. DENSE			
3.0				5								
3.0				6								
4.0		S-3		4		0	SAND, FINE GRAINED, TRACE ORGANICS, SOME SILT	BLACK DRY Brown	LOOSE			4.0
4.0				4								
5.0				4								
5.0				3				LT. Brown		MOIST WET WATER AT		5.0
5.0							END OF BORING	AT	5.0'			
6.0												
7.0												
8.0												
9.0												
10.0												

DRILLING CO.: HARDIN-HUBER
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK
 BORING NO.: SB30 SHEET 1 OF 1

PROJECT: SITE 6 LO

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
SIZE (DIAM.)	<u>1 3/8" I.D.</u>	CASING	<u>3/4" I.D.</u>	CORE BARREL	<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 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						
0.5		S-1				SAND, FINE GRAINED, TRACE SILT, LITTLE FILL	LT. BROWN		DRY		
1.0		A-NS					LT. BROWN		DAMP		
2.0		S-2	1.4	8		SAND, FINE GRAINED TRACE SILT	BROWN CLAY	MED. DENSE			
3.0			95%	6			LT. BROWN BROWN CLAY		MOIST		
4.0		S-3	1.7	4		END OF BORING	BROWN				
5.0			85%	3			AT		NET WATER AT 5.0' 5.0		
6.0											
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARDIN - HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB31

SHEET 1 OF 1

PROJECT: SITE 6 U

S.O. NO.: 19133-50-SRN

BORING NO.: SB32

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>8/29/92</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	
0.5		S-1					SAND, FINE GRAINED, TRACE SILT, LITTLE FILL	GRAY		DRY	
1.0		A-1/2						BLACK T. BROWN		DAMP	
2.0		S-2	2.0	6			SAND, FINE GRAINED TRACE SILT	BLACK	MED. DENSE		
3.0			100%	8							
4.0		S-3	1.8	4			SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	GRAY	LOOSE	MUST	4.0
5.0			90%	3				BROWN T. BROWN			WET WATER TABLE AT 5.0'
6.0							END OF BORING		5.0'		
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARDIN - HUBER

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB32

SHEET 1 OF 1

PROJECT: SITE 6
 S.O. NO.: 19133-50-SRN BORING NO.: SB33
 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>8/31/92</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>HS#</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 (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1	0.5 1.0	S-1 A-NS				0	SAND, FINE GRAINED, TRACE SILT, TRACE FILL	LT. BROWN BROWN		DRY DAMP MOIST		
2		S-2	1.0	4 4 4		0	SAND, FINE GRAINED, TRACE SILT	GRAY	LOOSE	NET WATER AT 2.0'		
3	3.0		50%	4								3.0
4							END OF BORING AT	AT	3.0'			
5												
6												
7												
8												
9												
10												

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

PROJECT: SITE 6 U

S.O. NO.: 19133-50-SRN

BORING NO.: SB34

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>8/29/92</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
							Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S-1					SAND, FINE GRAINED, LITTLE FILL, TRACE SILT	LT. BROWN		DRY DAMP		
2		S-2	1.5	11			SAND, FINE GRAINED, TRACE SILT		MED. DENSE	MUST		
3			75%	7					LOOSE			
4		S-3	0.9	4								
5		S-4	45%	4			SAND, FINE, LITTLE FILL, TRACE SILT	BROWN		MET. WATER AT 4.75'		4.75' 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.: SB34

SHEET 1 OF 1

PROJECT: SITE 6 20

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 3/4" 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>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.	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, SOME FILL, TRACE SILT</u>	<u>LT. BROWN</u>		<u>DRY</u>		
	<u>1.0</u>	<u>A-NS</u>						<u>GRY</u>		<u>DAMP</u>		
2		<u>S-2</u>	<u>0.4</u>	<u>6</u>		<u>0</u>	<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT. BROWN</u>	<u>MED. DENSE</u>	<u>MUST</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'</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.: SB35 SHEET 1 OF 1

PROJECT: SITE 6 20

S.O. NO.: 19133-50-SRN

BORING NO.: SB 36

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>8/29/92</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	
0.5		S-1				0	SAND, FINE GRAINED, SOME FILL, TRACE SILT	lt. Brown		DRY	
1.0		A-NS									
2.0		S-2	1.7	57		0		BLACK GRAY	MED, DENSE	DAMP	
3.0			85%	9			SAND, FINE GRAINED TRACE SILT			MOIST	
4.0		S-3	1.4	55		0		BROWN G. BROWN	LOOSE		
5.0			70%	7						WET WATER TABLE NOTED AT 5.0'	
6.0							END OF BORING AT	5.0			
7.0											
8.0											
9.0											
10.0											

DRILLING CO.: HARDIN-HUBER
 DRILLER: CHARLES CHISUM

BAKER REP.: R. SEVCIK
 BORING NO.: SB 36 SHEET 1 OF 1

PROJECT: Site 6 20

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>8/24/12</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 (FL & %)
1	0.5	S-1			SAND, FINE GRAINED, TRACE SILT, TRACE FILL	DK. GRAY		DRY DIMP			
2	1.0	A-NS	1.3	5			100% 3/2				
3	3.0	S-2	65%	5	SAND, FINE GRAINED TRACE SILT	GRAY		MU ST			
4			1.4	3						4.0	
5	5.0	S-3	70%	4	SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	BROWN LR. BROWN		WET WITHIN TRALE AT 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.: SB37 SHEET 1 OF 1

PROJECT: Lot 201 Area C RIF'S 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>								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>8-30-92</u>	<u>8'</u>	<u>Sunny/Warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSB</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.	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 (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
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% 1.2 2.0	17				dk gray lt gray to	medium dense	moist		
3			60% 1.2 2.0	16		1.2		dk brown	medium dense	moist		
4			70% 1.2 2.0	13			SAND fine grained	lt brown	medium dense	moist		
5		S2	35% 1.3 2.0	8		1.1		lt brown to dk gray	medium dense	moist		
6			65% 1.3 2.0	12				lt brown to dk gray	medium dense	moist		
7				8		1.1			medium dense	moist		
8				15			END of boring					
9												
10												

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

Baker

Baker Environmental, Inc.

FIELD TI

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 203 DDT area RIFFS 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								
STICK UP	30"								

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 _{sp} 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		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		E1 A-N				1.2	SILT w/ some sand	gray	Loose	Damp Root material	
2		E2	1.5 2.0	21 24 20		1.3	SAND fine to med w/ some silty	brown to like brown	dense	moist	
3			75%	22			SAND fine to med	like brown			
4						1.4		like brown	medium dense	Wet	
5							END of Boring				Water 4' 1/2
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.
 OPERATOR: T. Cramer

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

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 203 DDT area KIFFS 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		3/4" 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.	K _{sp} 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		S1 A-N			1.1	SILT w/ some sand	gray	Loose	Damp Plant material		
2		S2	1.5 2.0	9 21	1.2	SAND fine grained w/ trace silt	brown	dense	moist		
3			75%	24							
4			1.4 2.0	9 17	1.0	SAND fine grained	brown	dense	wet (at bottom)		
5			70%	21		END of Boring					Wat 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

PROJECT: SITE 6 1

S.O. NO.: 19133-50-SRN

BORING NO.: SB3

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>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 ROCK	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	0.5 1.0	S-1 A-NS				0	SAND, FINE GRAINED, TRACE SILT	GREY		DAMP		
2		S-2	1.6	7 6 3 7		0		LIGHT GREY	LOOSE	MOIST ORANGE MOTTLING FROM 1-2 FEET.		
3	3.0		80%				SAME AS ABOVE					
4		S-3	1.8	4 7 9 10		0		LIGHT GREY	MEDIUM DENSE	WET		
5			90%							WATER AT 5.0'		
6							END OF BORING AT 5.0					
7												
8												
9												
10												

DRILLING CO.: HARWIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CARLES CITSUM

BORING NO.: SB3

SHEET 1 OF 1

PROJECT: SITE 6 LD

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>HSI#</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.	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		
0.5		S-1				0	SAND, FINE GRAINED, TRACE SILT	GRAY	MED. DENSE	DRY DAMP		
1.0		A-NS				0						
2		S-2	1.8	4			SAND, FINE GRAINED, TRACE SILT	GRAY	MED. DENSE			
3			90%	6		0						
4		S-3	1.2	4			SAME AS ABOVE	ORANGE GRAY		MAY BE WET WATER AT 5.5'		
5			60%	7		0						
6		S-4	1.8	6			SAME AS ABOVE	ORANGE GRAY				
7			90%	4		0						
8							END OF BORING AT 7.0'					7.0
9												
10												

DRILLING CO.: Harold-Huber, Inc.

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB4

SHEET 1 OF 1

PROJECT: SITE 6 LC

S.O. NO.: 19133-50-SRN

BORING NO.: SBS

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>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' 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						
0.5		S-1				SAND, FINE GRAINED, TRACE SILT	GRAY		DRY		
1.0		A-NS									1.25
1.9			90%	3		SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	BROWN		DAMP		1.75
2		S-2									
3.0			90%	3		SAND, FINE GRAINED, TRACE SILT	GRAY	LOOSE			
3											
4		S-3	0.9	3		SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY	LT. BROWN	LOOSE	MOIST		
4			45%	6							
5.0											
5		S-4	2.0	3		SAND, FINE GRAINED, TRACE SILT, TRACE CLAY	LT. BROWN	MED. DENSE			
5			45%	6							
6											
6		S-4	2.0	3		SAND, FINE GRAINED, TRACE SILT, TRACE CLAY	LT. BROWN	MED. DENSE			
6			100%	8							
7.0									WET WATER AT		7.0
7											
8						END OF BORING	AT	7.0'			
8											
9											
10											

DRILLING CO.: HARDIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CITSUM

BORING NO.: SBS

SHEET 1 OF 1

PROJECT: Lot 203 UNIT AREA D-11 - UNIT 203
 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								
ALL	30"								
TICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon sample
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.	K _{sp} 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	1.6 / 2.0	11		1.1	SILT w/ some sand	brown to grey	Loose	Damp Root Plant material		
2		S2	2.0 / 80%	9		1.1	SAND fine grained w/ trace silt	brown to light brown	medium dense	moist orange streaks		
3			1.7 / 2.0	11			SAND fine grained					
4			2.0 / 85%	5		1.1		brown	medium dense	wet (at bottom)		
5				8			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# 6 SHEET 1 OF 1

PROJECT: Lot 203 DDT Area R/FS 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								
WALL	30"								
TICK UP									

MARKS: Advanced boring to 5' 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	RISK PID (ppm)	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	Loose	Damp Root/Plant material	
2		S2	1.2 2.0	6 7 9		1.2	SAND fine grained w/ trace silt	lite brown	medium dense	Moist orange streaks	
3			65%	16			SAND fine grained	lite brown to lite gray	medium dense	Wet (at bottom)	
4			1.4 2.0	5 13 16		1.2					
5			70%	22			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# 7 SHEET 1 OF 1

PROJECT: Lot 203 Unit 1100 D-11
 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 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 sample
Basehole 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		S1 A-N			1.4	SILT w/ some sand	buff to Dr. Brown	Loose	Damp	Plant material	
2		S2	1.3 2.0	9 12 13 15	1.4	SAND fine grained w/ trace silt	lite brown	medium dense	moist		
3			65%								
4			1.6 2.0	5 10 10 12	1.4	SAND fine grained	lite gray	medium dense	wet (at bottom)		
5			80%								
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J. E. Zimmerman, JR.
 DRILLER: T. Cramer BORING NO.: DDT SB# 8 SHEET 1 OF 1

PROJECT: Lot 203 UNIT 1100 D.I.I. - WALKER
 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 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 sample
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	Samp. Rec.	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 ROCK	ELEVATION
		Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Moist. PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		S1 A-N		9		1.4	SILT w/ some sand	Brown	Loose	Damp Root/Plant material		
2		S2	1.6 2.0	11		1.4	SAND fine grained w/ trace silt	brown to gray to light brown	medium dense	moist Bark present		
3			80%	14								
4			1.7 2.0	7		1.4	SAND fine grained	brown	medium dense	wet (at bottom)		
5			85%	14			END of Boring					WCS
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

PROJECT: Lot 203 DDT area K11-3 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		9-9-92	5'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
BL	30"								
PICK UP									

REMARKS: Advanced boring to 5' taking continuous split spoon sample
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		S1 A-N	1.0 8		SILT w/ some sand	Brown	Loose	Damp Root / Plant material			
2		52	2.0 7		SAND fine grained w/ trace silt	brown to lite brown	medium dense	moist			
3			50% 13								
4			1.6 6 2.0 12		SAND fine grained	brown	medium dense	wet orange striations (at bottom)			
5			80% 14		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# 10 SHEET 1 OF 1

PROJECT: Lot 203 UVI Area
 S.O. NO.: 19133 BORING NO.: SIB # 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		9-9-92	3'	partly sunny / humid		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
CL	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.	SPT Blows Per 0.5'	Lab. Class.	Moisture Content, Organic Content, Plasticity, and Other Observations	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	SOIL ELEVATION	
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Peri. Rate						Min. PID (ppm)
1		SI					SILT w/ some sand	brown to gray	Loose	Damp Root material, oxidation	
2		A-N	1.8 / 20	5			SAND fine grained w/ trace silt	dk brown to brown	medium dense	Moist to wet (at bottom)	
3			90%	6			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.: DDT SB # 11 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 203 UDT (RED) R/FJ Comp Levee
 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								
ALL	30"								
TICK UP									

REMARKS: Advanced boring to 3' taking continuous split spoon samples
Borehole grouted to surface

DRILL RECORD							VISUAL DESCRIPTION				
D. 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		Min. PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
1		S1 A-N				SILT w/ some sand	gray to brown	Loose	Damp Root material		
2		S2	16 20	10 11 12		SAND fine grained w/ trace silt	brown	medium dense	Moist to wet at bottom		
3			80%	14		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.: DDT SB # 12 SHEET 1 OF 1

PROJECT: Lot 203 UDI (West Hill) Comp. Leasing
 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								
BL	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.	SPT Blows Per 0.5'	Lab. Class.	KHA 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		S1 A-N				.9	SILT w/ some sand	yellow brown to br. gray	Loose			
2		S2	17 20	9 13 15 22		10	SAND fine grained w/ trace silt	light gray to light brown	medium dense	stained to wet (at bottom) + oxidation streaks		
3			85%				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.: DDT SB # 13 SHEET 1 OF 1

PROJECT: Lot 203 DDT area KITT Camp Lejeune
 S.O. NO.: 19133 BORING NO.: SB# 14
 COORDINATES: EAST: _____ NORTH: _____
 ELEVATION: SURFACE: _____ TOP OF PVC CASING: _____

RIG: #19									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	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"								
PICK UP									

REMARKS: Advanced boring to 5' 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.	KAW 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	1.6 / 2.0	6		.9	SILT w/ some sand	Brown	Loose	Damp Root material		
2		S2	80% / 2.0	10		1.0	SAND fine grained w/ trace silt	brown	medium dense	Moist		
3			1.3 / 2.0	11			SAND fine grained					
4			65% / 2.0	3		1.0		brown	Loose to medium dense	Wet		
5				4			END of Boring					
6				4								
7				6								
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

PROJECT: SITE 6 LO

S.O. NO.: 19133-50-SRN

BORING NO.: S13 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 1/4" I.D.</u>		<u>9/1/92</u>	<u>510</u>	<u>SPRINKY 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	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.)	(FL & %)	RQD (FL & %)							Pen. Rate	PID (ppm)	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		<u>S-1</u>			<u>SAND, FINE GRAINED TRACE SILT</u>	<u>LT Brown</u>	<u>LOOSE</u>	<u>DRY DAMP MOIST</u>							
2		<u>S-2</u>	<u>1.2</u>	<u>3</u>											
3			<u>60%</u>	<u>4</u>											
4			<u>1.3</u>	<u>4</u>											
5		<u>S-3</u>	<u>65%</u>	<u>12</u>									<u>MED. DENSE</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.: HARDIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CITSUM

BORING NO.: S13 15

SHEET 1 OF 1

PROJECT: Lot 203 DDI area K1/F3 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		3/4" 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	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	
											R O C K
1		A-N	11		SILT w/ some sand	Brown	Loose	Damp Root Plant material			
2		S2	12	.8	SAND fine grained w/ trace silt	Brown	medium dense	moist			
3			15								
4			2		SAND fine grained	light Brown	medium dense	wet			
5			12	.8							
6			14								
7			22		END of Boring					water 4 1/2 to 5'	
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc
 DRILLER: T. Cramer

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

Baker

Baker Environmental, Inc.

FIELD TE

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 203, DDT
 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.)	1 3/8" ID		3 1/4" ID		9-10-92	7	Sunny 90°	—	—
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 7.0' 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		S1 A-N					Fine sand, little silt	light gray		dry; roots present		
2		S2	1.5 2.0	9 18 22			Top 14" fine sand and silt silt; trace fine gravel	medium gray	dense	dry		
3			75%	21			fine sand and silt	brown		damp		
4		S3	1.5 2.0	8 8 13 18						damp		
5			75%				fine sand, little silt	light brown	medium dense			
6		S4	1.67 2.0	7 8 11 12			fine sand little silt	light gray	medium dense	water at 6.0ft		
7							fine sand little silt	light gray	medium dense			
8							End of Boring at 7.0ft					
9												
10												

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: Chad Chism

BAKER REP.: D. J. Martin
 BORING NO.: DDT SB 17 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6 LO CLEJ-01272-3.13-08/20/93
 S.O. NO.: 19133-50-SIGN
 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>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>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' - 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	
0.5		S-1				0	<u>SAND, FINE GRAINED</u>	<u>grey</u>	<u>Med. Dense</u>	<u>DRY</u>				
1.0		A-NS											<u>DAMP</u>	
2		S-2	<u>1.6</u>	<u>7</u>			<u>TRACE SILT</u>			<u>MOIST</u>				
3			<u>80%</u>	<u>9</u>										
4		S-3	<u>1.4</u>	<u>10</u>		0						<u>Medium Dense</u>	<u>WET</u>	
5			<u>70%</u>	<u>11</u>			<u>SAME AS ABOVE</u>			<u>WATER AT 5.0</u>				
				<u>12</u>			<u>END OF BORING</u>		<u>= 5.0</u>					
6														
7														
8														
9														
10														

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

FIELD TEST BORING RECORD

PROJECT: SITE 6 LOT

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133-50-S

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>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' - 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>GREY</u>		<u>DRY DAMP</u>				
	<u>1.0</u>	<u>A-NS</u>												
2		<u>S-2</u>	<u>1.6</u>	<u>7</u>			<u>SAME AS ABOVE</u>			<u>MOIST WET</u>				
3	<u>3.0</u>		<u>80%</u>	<u>10</u>		<u>0</u>								
4		<u>S-3</u>	<u>1.4</u>	<u>6</u>										
5	<u>5.0</u>		<u>70%</u>	<u>11</u>		<u>0</u>				<u>WATER AT 5.0</u>				
6							<u>END OF BORING - 5.0</u>							
7														
8														
9														
10														

DRILLING CO.: HARWIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CARLES CATHUM

BORING NO.: SB 19

SHEET 1 OF 1

PROJECT: SITE 6 L

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>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	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	LT. BROWN		DRY DAMP		
2		S-2	1.4	4		0	SAND, FINE GRAINED, TRACE SILT	BROWN	LOOSE			
3			70%	4								
4		S-3	1.2	5		0	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.: HARWIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB20

SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6 LI CLEJ-01272-3.13-08/20/93
 S.O. NO.: 19133-50-.....
 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>9-2-92</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>MSA</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. & %)	RQD (Ft. & %)
1	<u>0.5</u>	<u>S-1</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GREY</u>		<u>DRY DAMP</u>				
	<u>1.0</u>	<u>A-NS</u>										
2		<u>S-2</u>	<u>1.40</u>	<u>7</u>	<u>SAME AS ABOVE</u>			<u>MOIST</u>				
3	<u>3.0</u>		<u>12</u>	<u>11</u>								
4		<u>S-3</u>	<u>1.3</u>	<u>8</u>								
5	<u>5.0</u>		<u>8</u>	<u>8</u>			<u>WET</u>	<u>WATER AT 4.75'</u>		<u>5.0</u>		
6					<u>END OF BORING = 5.0</u>							
7												
8												
9												
10												

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

BAKER REP.: R. SEVCIK
 BORING NO.: SB 21 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6 L CLEJ-01272-3.13-08/20/93
 S.O. NO.: 19133-50-JUN
 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>4.5</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 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 (FL & %)	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>SAND, FINE GRAINED, TRACE SILT</u>	<u>GREY</u>	<u>MEDIUM DENSE</u>	<u>DRY</u>			
		<u>A-NS</u>										<u>DAMP</u>	
2		<u>S-2</u>	<u>1.6</u>	<u>8</u>		<u>0</u>	<u>SAME AS ABOVE</u>						
3			<u>80%</u>	<u>8</u>									
4		<u>S-3</u>	<u>2.0</u>	<u>7</u>		<u>0</u>						<u>MOIST</u>	
5			<u>100%</u>	<u>11</u>			<u>END OF BORING = 5.0</u>			<u>WET</u>			
6												<u>WATER AT 4.5</u>	
7													
8													
9													
10													

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

BAKER REP.: R. SEVCIK
 BORING NO.: 5322 SHEET 1 OF 1

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: SITE 6 LOT

S.O. NO.: 19133-50-S100

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>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>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 DROPTED 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 (FL & %)							Pen. Rate	PID (ppm)	Color
1	0.5	S-1			SAND, FINE GRAINED, TRACE SILT	GREY	MEDIUM DENSE	DRY DAMP					
	1.0	A-NS											
2		S-2	1.4	678	SAME AS ABOVE		DENSE	MOIST WET					
3	3.0		70%	"									
4		S-3	1.5	99									
5	5.0		75%	10				WATER AT 5.0					
6					END OF BORING = 5.0								
7													
8													
9													
10													

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

BAKER REP.: R. SEVCIK
 BORING NO.: SIB 23 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TE

Lot 203

CLEJ-01272-3.13-08/20/93

PROJECT: DDT Storage

S.O. NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: SB# 24

NORTH: _____

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>9-10-92</u>	<u>7.0</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 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.	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>NA</u>	<u>0</u>	<u>fine sand, little silt, trace clay</u>	<u>lt. gray</u>		<u>dry, root particulate 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 moist at 6.5'</u> <u>water at 7.0'</u>		
7											
8				<u>NA</u>		<u>End of Boring at 7.0'</u>					
9											
10											

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: D.J. Martin

BORING NO.: DDT Storage SB24 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6 LO CLEJ-01272-3.13-08/20/93
 S.O. NO.: 19133-50-S...
 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>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	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		S-1				0	SAND, FINE GRAINED, <u>CLAY</u> TRACE SILT		V. DENSE	DRY DAMP		
		A-NS										
2		S-2	1.9	7			SAME AS ABOVE		DENSE	MOIST		
3			95%	18								
4		S-3	1.9	10		0						
5			95%	13			END OF BORING = 5.0			WET WATER AT 5.0		
				15								
6				16								
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 TE

CLEJ-01272-3.13-08/20/93

lot 203

PROJECT: DDT Disposal Site

S.O. NO.: 19/93

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 9/8" ID		3 1/4" ID						
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 8.0' taking continuous split spoon samples
Borehole grouted to surface. Note: Boring was advanced with hand auger.

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		S1	NA		fine sand, little silt	brown-gray	NA	dry trace root particulates			
2		S2	NA		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		fine sand, some silt	light brown		some orange mottling			
5					fine sand, little silt						
6		S4	NA		fine sand, little silt			damp moist at 5.5'			
7					fine sand, little silt			moist			
8		S5	NA	NA	fine sand, little silt			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

PROJECT: SITE 6 LO

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>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 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.)		RQD (FL & %)							Per. Rate
0.5		S-1									
1.0		A-N-S									
2		S-2	1.7	7	SAND, FINE GRAINED, TRACE SILT	GRAY LT. BROWN	MED. DENSE	DRY DUMP			
3			85%	5							
4		S-3	1.9	2	SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY	LT BROWN	LOOSE	MOIST		4.0	
5			95%	2							
6		S-4	1.7	2	SAND, FINE GRAINED, TRACE SILT		LOOSE	WET WATER AT		6.0	
7			85%	3							
8					END OF BORING	AT	7.0'				
9											
10											

DRILLING CO.: HARWIN-HUBER, INC.

BAKER REP.: R. SEVCIK

DRILLER: CHARLES CHISUM

BORING NO.: SB 27

SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6
 S.O. NO.: 19133-50
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>5.25'</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 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.	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>S-1</u>				<u>0</u>	<u>SAND, FINE GRAINED</u> <u>TRACE SILT</u>	<u>LT. BROWN</u>		<u>DRY DUMP</u>	
		<u>A-N-S</u>						<u>GRAY</u>	<u>MED. DENSE</u>		
2		<u>S-2</u>	<u>2.0</u>	<u>9</u>		<u>0</u>	<u>SAME AS ABOVE</u>			<u>MAST</u>	
3			<u>100%</u>	<u>9</u>				<u>GRAY</u>	<u>LOOSE</u>	<u>WET WATER AT 5.25'</u>	
4		<u>S-3</u>	<u>1.8</u>	<u>7</u>		<u>0</u>					
5			<u>90%</u>	<u>7</u>							
6		<u>S-4</u>	<u>2.0</u>	<u>7</u>		<u>0</u>					
7			<u>100%</u>	<u>6</u>		<u>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.: SB 28 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6
 S.O. NO.: 19133-50
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>9.0</u>	<u>SUNNY 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>HSIA</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. (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		
1	<u>0.5</u>	<u>S-1</u>					<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>ORANGE</u>		<u>Dry DRMP</u>		
2	<u>1.0</u>	<u>A-NS</u>						<u>CRAY BROWN</u>	<u>LOOSE</u>			
3		<u>S-2</u>	<u>1.4</u>	<u>4</u>			<u>SAME AS ABOVE</u>					
4	<u>3.0</u>		<u>70%</u>	<u>5</u>				<u>LT BROWN</u>				
5		<u>S-3</u>	<u>1.4</u>	<u>3</u>			<u>SAME AS ABOVE</u>			<u>MOIST</u>		
6	<u>5.0</u>		<u>70%</u>	<u>5</u>								
7		<u>S-4</u>	<u>1.3</u>	<u>3</u>			<u>SAME AS ABOVE</u>					
8	<u>7.0</u>		<u>65%</u>	<u>5</u>				<u>CRAY</u>	<u>LOOSE</u>		<u>WET WATER AT 7.25'</u>	
9		<u>S-5</u>	<u>2.0</u>	<u>3</u>			<u>END OF BORING AT</u>					
10	<u>9.0</u>		<u>100%</u>	<u>4</u>					<u>9.0'</u>			

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

BAKER REP.: R. SEVCIK
 BORING NO.: SB 29 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6
 S.O. NO.: 19133-50
 COORDINATES: EAST:
 ELEVATION: SURFACE:

CLEJ-01272-3.13-08/20/93

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>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 CRUTED TO SURFACE.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID Type No. (N = No Samp.)	SPT Blows Per 0.5' RQD (Ft. & %)	Lab. Class. Pen. Rate	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ELEVATION ROCK	
											Samp. Rec. (Ft. & %)
1	0.5 1.0	S-1 A-NS			0	SAND, FINE GRAINED, TRACE SILT	LIGHT BROWN	DENSE	DRY DAMP		
2		S-2	1.2	12	0						
3	3.0		60%	12		SAME AS ABOVE	GREY	MEDIUM DENSE	MOIST WET		
4		S-3	1.2	7	0						
5	5.0		60%	7			GREEN		WETTER AT 5.0		
6						END OF BORING	5.0				
7											
8											
9											
10											

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

BAKER REP.: R. SEVCIK
 BORING NO.: SIB 30 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6 L
 S.O. NO.: 19133-50-
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>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>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	SAND, FINE GRAINED, TRACE SILT	LT BROWN		DRY DAMP		
1.0		A-NS									1.0	
2		S-2	1.8	8		0	SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY	LT BROWN	MED. DENSE			
3.0			90%	6							3.0	
4		S-3	2.0	4		0	SAND, FINE GRAINED, TRACE SILT	GRAY	MED. DENSE	MOST WET WATER AT 5.0'		
5.0			100%	4								
6							END OF BORING	AT	S.0'			
7												
8												
9												
10												

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

BAKER REP.: R. SEVCIK
 BORING NO.: S331 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6
 S.O. NO.: 19133-50
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>7.0</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 7.0 FEET, TAKING SPLIT SPOON SAMPLES FROM 1' - 7' AT TWO FOOT INTERVALS. BOREHOLE CRUTED 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'	RQD (Ft. & %)	Pen. Rate						
1	0.5 1.0	S-1 A-NS					<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>GREY</u>		<u>DRY DAMP</u>		
2		S-2	<u>2.0</u>	<u>3</u> <u>2</u> <u>3</u>					<u>LOOSE</u>			
3	3.0		<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> <u>3.0</u>
4		S-3	<u>2.0</u>	<u>3</u> <u>5</u> <u>3</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>		<u>LOOSE</u>	<u>MOIST</u>		
5	5.0		<u>100%</u>	<u>2</u>								<u>4.75</u>
6		S-4	<u>2.0</u>	<u>5</u> <u>5</u> <u>6</u>			<u>SAND, FINE GRAINED, TRACE SILT, LITTLE CLAY</u>	<u>GREY</u>	<u>MEDIUM DENSE</u>	<u>WET</u>		
7	7.0		<u>100%</u>	<u>5</u>						<u>WATER AT 7.0</u>		<u>7.0</u>
8							<u>END OF BORING = 7.0</u>					
9												
10												

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

BAKER REP.: R. SEVCIK
 BORING NO.: 5332 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6
 S.O. NO.: 19133-50
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>HSA</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	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 1.0	S-1 A-NS				0	SAND, FINE GRAINED, TRAC SILT	LIGHT BROWN		DRY DAMP		
2		S-2	1.8	6 6 6		0		GREY	Medium Dense	DAMP		
3	3.0		90%	6			SAME AS ABOVE	GREY	Medium	MOIST		
4		S-3	2.0	6 6 8				GREY	Dense			
5	5.0		100%	8								
6		S-4	2.0	6 7 8			SAME AS ABOVE	GREY	Medium Dense	MOIST Wet		
7	7.0		100%	8						WATER AT 7.0 FEET		
8							END OF BORING = 7.0'					
9												
10												

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

BAKER REP.: R. SEVCIK
 BORING NO.: 5333 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

TOP OF PVC CASING: _____

RIG: # <u>19</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>9-10-92</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	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		<u>5'</u>				<u>1.3</u>	<u>SILT w/ some sand</u>	<u>gray to brown</u>	<u>Loose</u>	<u>Damp hard material</u>		
2			<u>1.4 / 2.0</u>	<u>4</u>			<u>SAND fine grained with some silt</u>	<u>light brown to brown</u>	<u>medium dense to loose</u>	<u>Damp</u>		
3			<u>70%</u>	<u>8</u>								
4			<u>1.4 / 2.0</u>	<u>3</u>			<u>fine grained</u>	<u>brown to light brown</u>	<u>medium dense</u>	<u>Moist</u>		
5			<u>70%</u>	<u>8</u>								
6		<u>4</u>	<u>1.6 / 2.0</u>	<u>6</u>				<u>light gray to yellow brown</u>	<u>medium dense</u>	<u>Moist</u>		
7			<u>80%</u>	<u>14</u>								
8			<u>1.6 / 2.0</u>	<u>14</u>				<u>light brown</u>	<u>dense</u>			
9			<u>80%</u>	<u>14</u>								
10							<u>END of Boring</u>					

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

BAKER REP.: John E Zimmerman, Jr.
 BORING NO.: DDT SB # 34 SHEET 1 OF 1

CLEJ-01272-3.13-08/20/93

D.5
Grid PCB Grid

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

2

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>								
WHL	<u>30"</u>								
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 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				1.1	SILT w/ some sand	gray to yellow	Loose	Damp Root material		
2		S2	1 1/2 / 2.0	13		1.0	SAND fine grained w/ trace silt	Yellowish Brown	medium dense	moist		
3			60%	8								
4		S3	1 1/2 / 2.0	5		1.0	SAND fine grained	like Brown to Brown to	medium dense	(Laminations) top		
5			60%	11						moist (orange streaks) bottom		
6		S4	1 1/3 / 2.0	3		1.1		like Brown to Brown to	medium dense	(orange streaks) top		
7			65%	10				like Brown to Brown to	medium dense	moist top		
8		S4	1 1/4 / 2.0	5		1.2		like Brown	medium dense			
9			70%	8				Brown	medium dense	Wet		9'
10				6			END of Boring					

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

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

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 1933

COORDINATES: EAST: _____

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>8-31-92</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.	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 (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.0	SILT w/ some sand	Gray	Loose	Damp Root/Plant material		
2		S2	1.5/2.0	8			SAND fine grained w/ trace silt	dk gray	medium dense	Moist		
3			75%	9							3'	
4		S3	1.6/2.0	4			SAND fine grained	Brown to lite gray	medium dense	Moist		
5			80%	5							5'	
6		S4	1.9/2.0	7			SAND fine grained w/ trace clay	lite gray to lite brown	medium dense	Moist (orange streaks) clay is mottled		
7			50%	8							7'	
8		S5	1.9/2.0	4			SAND fine grained	Brown to lite gray	medium dense	Moist (orange streaks)		
9			50%	5								
10		S6	1.9/2.0	4				Brown	medium dense	Moist (orange streaks)		
			90%	5								

DRILLING CO.: Hardin Huber, Inc.

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

DRILLER: Terry Mize

BORING NO.: SB # 2 SHEET 1 OF 2

City

Baker Environmental, Inc.

PROJECT: Lot 203
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>9-2-92</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 sample
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL ROCK	Sample ID	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.)	RQD (Ft & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N	4		1.3	SILT w/ some sand	dk gray	Loose	Damp Root material		
2		S2	8		11.4	SAND fine grained w/ trace silt	dk gray to yellow/brown to brown	medium dense	moist		
3		S3	17			SAND fine grained	yellow/brown	medium dense	moist		
4		S4	7		13.1		light brown	medium dense	moist		
5		S5	9		9.3		light brown	medium dense	moist		
6		S6	10				light brown	medium dense	moist		
7		S7	2				light brown	medium dense	moist		
8		S8	7		7.2		light brown	medium dense	moist		
9		S9	4				light brown	medium dense	moist		
10			1			END of Boring					

DRILLING CO.: Hardin Huber, Inc

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

DRILLER: Terry Mize

BORING NO.: SB*3 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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 ELEVATION	
				RQD (Ft. & %)	Pen. Rate						HW PID (ppm)
1		S1 A-N	1.6/2.0	7		SILT w/ some sand	gray to buff	Loose	damp Root material		
2		S2	1.6/2.0	5		SAND fine grained w/ trace silt	light gray	medium dense			
3		S3	80% 1.2/2.0	5		SAND fine grained				3'	
4				4			Brown to dk brown	Loose to medium dense			
5			60%	3							
6			1.4/2.0	3			dk brown	Loose to medium dense			
7			70%	3							
8			1.6/2.0	3							
9			30%	5						9'	
10						END of Boring 9'					

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

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

20

S.O. NO.: 19133

COORDINATES: EAST: _____

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>								
WELL	<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 ROCK	Sample ID	Samp. Rec.	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
		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		S1 A-N				1.0	SILT w/ some sand	Gray	Loose	Damp Root material		
2		S2	1.5/20	7 8 9		1.0	SAND fine grained w/ trace silt	Brown to yellow brown	medium dense	MOIST		
3			75%	6								
4		S3	1.8/20	2 4 8		1.0	SAND fine grained	Brown to light brown to gray	medium dense	MOIST (laminations yellow/orange)		
5			90%	6								
6		S4	1.4/20	2 3 4		1.0		Gray to light gray to dk. gray	Loose	MOIST		
7			70%	4								
8		S5	1.4/20	3 4 6		1.1		dk. brown to brown to light brown	medium dense	WET		
9			70%	8								
10							END of Boring 9'					

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Tarry Miza

BAKER REP.: J.E. Zimmerman, Jr

BORING NO.: SB # 5 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 TOP OF PVC CASING: _____

RIG: <u>Mobila 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>								
	<u>30"</u>								
BACK 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						HNA PID (ppm)
1		S1 A-N				SILT w/ some sand	Gray to Brown	Loose	Damp Root material		
2		S2	1.5 2.0	10 14 17 18		SAND fine grained w/ trace silt	Brown to light Brown	medium dense	moist		
3			75%							3'	
4		S3	1.4 2.0	5 10 13 13		SAND fine grained	dk Brown to light Brown	medium dense	moist (granulations)		
5			70%								
6		S4	1.2 2.0	7 11 15 16			light Brown	medium dense	moist		
7			60%								
8		S5	1.5 2.0	6 5 9			Brown to light Brown	medium dense	wet		
9			75%	10						9'	
10						END of Boring				9'	

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: TERRY MIZA

BAKER REP.: J.E. Zimmerman, Jr
 BORING NO.: SB # 6 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

2.

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>9-2-92</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 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	Hum. PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		S1 A-W				SILT w/ some sand	light gray to brown	Loose	Damp Rock / Plastic material & bank		
2		S2	12/20	8		SAND fine grained w/ trace silt	light brown to brown	medium dense	moist		
3			60%	13	6.7	SANDS fine grained	gray/ yellow to brown to light gray	medium dense			3'
4		S3	.8/20	3			light gray to dk. brown	medium dense	moist		
5			40%	10							
6		S4	1.1/20	7			dk. brown	medium dense	moist		
7			55%	15	12.3						
8		S5	1.3/20	2			dk. brown	medium dense	moist		
9			90%	14	13.2						
10		S6	1.3/20	10			dk. brown to brown	medium dense	Wet (bottom)		
			90%	6	20.3				Wet		10

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
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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	UWU PID (ppm)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11						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

PROJECT: Lot 203
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>								
BL	<u>30"</u>								
CK 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.	H ₂ 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		
		<u>S1</u>				<u>1.1</u>	<u>SILT w/ some sand</u>	<u>DK Gray</u>	<u>Loose</u>	<u>Damp Root material</u>		
<u>1</u>		<u>A-W</u>										
<u>2</u>		<u>S2</u>	<u>1.6 / 2.0</u>	<u>3</u> <u>10</u> <u>14</u>		<u>1.2</u>	<u>SAND fine grained w/ trace silt</u>	<u>Brown to DK Brown</u>	<u>medium dense</u>	<u>Moist (laminations) bottom 3'</u>		
<u>3</u>			<u>80%</u>	<u>12</u>								
<u>4</u>		<u>S3</u>	<u>1.5 / 2.0</u>	<u>2</u> <u>5</u> <u>7</u>		<u>1.2</u>	<u>SAND fine grained</u>	<u>DK Brown</u>	<u>medium dense</u>	<u>Moist</u>		
<u>5</u>			<u>75%</u>	<u>6</u>								
<u>6</u>		<u>S4</u>	<u>1.7 / 2.0</u>	<u>2</u> <u>6</u> <u>7</u>		<u>1.2</u>		<u>DK Brown</u>	<u>medium dense</u>	<u>Moist</u>		
<u>7</u>			<u>85%</u>	<u>6</u>								
<u>8</u>		<u>S5</u>	<u>1.5 / 2.0</u>	<u>4</u> <u>7</u> <u>11</u>		<u>1.2</u>		<u>Brown to lta Brown</u>	<u>medium dense</u>	<u>Wet</u>		
<u>9</u>			<u>75%</u>	<u>6</u>								
<u>10</u>							<u>END of Boring</u>					

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

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

DATE: _____
 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>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	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		S1 A-N				SILT w/ some sand	gray to buff	Loose	Damp Root material		
2		S2	1.2 2.0	4 7 10		SAND fine grained w/ trace silt	Brown to dk brown	medium dense	moist (laminations)		
3			60%	7							
4		S3	1.6 2.0	2 3 3		SAND fine grained	dk brown	Loose	moist		
5			80%	4							
6		S4	1.8 2.0	3 3 4			dk brown to brown	Loose	wet		
7			90%	5							9'
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

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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					SOIL 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	
	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	1.5	11		SILT w/ some sand	gray	Loose	Damp Root/Plant material		
2		S2	2.0	10	1.2	SAND fine grained w/ trace silt	light brown	medium dense	Moist		
3		S3	73% 1.3	7		SANDS fine grained					3'
4		S3	2.0	5	1.2		light gray	medium dense	Moist		
5			63%	12							
6		S4	1.1	4	1.2		light gray to dk brown	medium loose	Moist		
7			55%	8					Moist		
8		S5	1.4	4	1.1		dk brown to light gray	medium dense	(No Brown)		
9			70%	7					Moist		9'
10						END of Boring					

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 2

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

COORDINATES: EAST: _____

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.	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>Brown to buff</u>	<u>Loose</u>	<u>Damp</u>		
2		<u>S2</u>	<u>14/20</u>	<u>9</u> <u>10</u> <u>12</u>		<u>SAND fine grained w/ trace silt</u>	<u>Brown to dk. Brown to like Brown</u>	<u>medium dense</u>	<u>moist (laminations)</u>		
3		<u>S3</u>	<u>70%</u>	<u>9</u>	<u>1.3</u>	<u>SAND fine grained</u>					
4		<u>S3</u>	<u>16/20</u>	<u>4</u> <u>8</u> <u>12</u>			<u>DK. Brown</u>	<u>medium dense</u>	<u>moist</u>		
5			<u>80%</u>	<u>12</u>							
6		<u>S4</u>	<u>15/20</u>	<u>8</u> <u>12</u> <u>17</u>			<u>DK. Brown</u>	<u>medium dense</u>	<u>moist</u>		
7			<u>75%</u>	<u>18</u>							
8		<u>S5</u>	<u>13/20</u>	<u>4</u> <u>8</u> <u>8</u>			<u>Brown to like Brown</u>	<u>medium dense</u>	<u>Wet</u>		
9			<u>65%</u>	<u>10</u>							
10						<u>END of Boring</u> <u>9'</u>					

DRILLING CO.: Hardin Huber, Inc.

DRILLER: TERRY Mize

BAKER REP.: J.E. Zimmerman, Jr

BORING NO.: SB # 11 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 1/2" 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 samp
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		
										Sample Rec.	RQD (FL & %)
1		<u>S1</u>			<u>SILT w/ some sand</u>	<u>Brown</u>	<u>Loose</u>	<u>Damp Root material</u>			
2		<u>S2</u>	<u>1.2</u> <u>2.0</u>	<u>6</u> <u>7</u> <u>11</u>	<u>SAND fine grained w/ trace silt</u>	<u>lt</u> <u>Brown to</u> <u>Brown</u>	<u>medium dense</u>	<u>Moist (Laminations)</u> <u>orange/rust (bottom)</u> <u>orange/rust (top)</u>			
3			<u>60%</u>	<u>12</u>	<u>SAND fine grained</u>	<u>Brown to</u> <u>DK Brown</u>	<u>medium dense</u>	<u>Moist</u>			
4		<u>S3</u>	<u>1.5</u> <u>2.0</u>	<u>2</u> <u>6</u> <u>8</u> <u>7</u>							
5			<u>75%</u>								
6		<u>S4</u>	<u>1.4</u> <u>2.0</u>	<u>3</u> <u>6</u> <u>8</u> <u>10</u>		<u>Brown</u>	<u>medium dense</u>	<u>Moist</u>			
7			<u>70%</u>								
8		<u>S5</u>	<u>8</u> <u>2.0</u>	<u>5</u> <u>8</u> <u>15</u> <u>12</u>		<u>Brown to</u> <u>DK Brown</u>	<u>medium dense</u>	<u>Wet (Laminations)</u>	<u>9'</u>		
9			<u>40%</u>								
10					<u>END of Boring</u>						

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

BAKER REP.: J.E. Zimmerman, Jr
 BORING NO.: SB #12 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

14

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>								
FALL	<u>30"</u>								
PICK UP									

MARKS: 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 (FL & %)	Pen. Rate	MNA PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	
1		S1 A-N				SILT w/ some sand	Gray to Brown	Loose	Damp Plant material	
2		S2	1.4 2.0	6 7 9		SAND fine grained w/ trace silt	Brown to light Brown to Brown	medium dense	moist (laminations)	
3			70%	11						
4		S3	1.4 2.0	3 6 11		SAND fine grained	Brown	medium dense		
5			70%	8						
6		S4	1.3 2.0	2 6 9			Brown	medium dense		
7			65%	8						
8		S5	1.2 2.0	2 4 2			Brown	loose		
9			50%	1						
10						END of Boring 9'				

DRILLING CO.: Hardin Huber, Inc.

DRILLER: TERRY Mize

BAKER REP.: J.E. Zimmerman, Jr

BORING NO.: 5B * 13 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 20
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

2

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>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	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>A-N</u>			<u>1.0</u> SILT w/ some sand	<u>Gray to Buff</u>	<u>Loose</u>	<u>Damp Root material</u>			
2		<u>S2</u>	<u>5</u> <u>4</u> <u>7</u>		<u>1.0</u> SAND fine grained w/ trace silt	<u>Brown</u>	<u>medium dense</u>	<u>moist</u>			
3			<u>6</u>						<u>3</u>		
4		<u>S3</u>	<u>4</u> <u>5</u> <u>4</u> <u>5</u>		<u>1.0</u> SAND fine grained	<u>lgt. Brown to Brown to Dk. Brown</u>	<u>medium dense</u>	<u>moist</u>			
5		<u>S4</u>	<u>5</u> <u>8</u> <u>6</u> <u>3</u>			<u>Dk. Brown</u>	<u>medium dense</u>	<u>moist</u>			
6			<u>3</u>								
7			<u>2</u> <u>5</u> <u>5</u>			<u>Brown</u>	<u>medium dense</u>	<u>moist</u>			
8		<u>S5</u>	<u>8</u>								
9			<u>3</u> <u>5</u> <u>8</u>			<u>Dk. Brown to Brown</u>	<u>Loose</u>	<u>moist</u>			
10		<u>S6</u>	<u>3</u> <u>5</u> <u>8</u>								

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

BAKER REP.: J.E. Zimmerman, Jr.
BORING NO.: SB # 14 SHEET 1 OF 3



FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Lot 203
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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'	DK Brown like 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

CLEJ-01272-3.13-08/20/93

D.6
Grid OSA Grid
Lot 203 and Site 82

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: ^{Site} Lot 203, Ope
S.O. NO.: 19/33
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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					
LENGTH	N/A				9-15-92	0.5'	85° sunny		
TYPE	N/A								
HAMMER WT.	N/A								
FALL	N/A								
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. (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)
1		S-1				Organic rich material and silt	black		moist water @ 0.5'	0.5'	
2									Area @ 20' south of Wallace creek in a swamp/marsh area		
3											
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.

DRILLER: _____

BAKER REP.: D. J. Martin

BORING NO.: SBI

SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203, 9

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>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	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>S1</u>				<u>Silt and fine sand</u>	<u>black</u>		<u>dry</u>	<u>10'</u>	
2		<u>A-11</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>S2</u>	<u>1.67</u>	<u>3</u>					<u>water at 2.5'</u>	<u>30'</u>	
			<u>2.0</u>	<u>3</u>							
			<u>84%</u>	<u>2</u>							
			<u>21</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 2

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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"</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>								
ALL	<u>30"</u>								
TICK UP									

MARKS: Advanced Boring to 15' taking continuous split spoon samples to the water table
Borehole gravel to the surface. DO = D10

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)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		S1 A-N				0	fine sand and silt - trace organic rich material	lt. grey brown	dry	
2		S2	1.33 2.0	1 2		2.0	fine sand, little silt	buff	Loose	damp
3		S3	1.33 2.0	2 3		0.2	DO.	buff	Loose	damp
4		S4	1.5 2.0	3 4		0.7	DO.	buff		damp
5		S5	1.08 2.0	5 7		0	fine sand and silt	lt. brown	Loose	
6		S6	54%	7 7		0	DO.	buff		6'
7							fine sand, little silt	buff		7.5'
8							medium to fine sand, little silt, trace clay	lt. brn	Medium Dense	damp
9							DO.			
10										

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

BAKER REP.: D. J. Martin
 BORING NO.: S83

SHEET 1 OF 1

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 203
 S.O. NO.: 19133

BORING NO.: _____

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	
11		S6	$\frac{1.42}{2.0}$ 96%	7 5		0	medium to fine sand, little silt, trace clay	buff		moist		
12			$\frac{1.33}{2.0}$	4			medium to fine, little clay	lt. brn w/ orange mottling	Medium Dense			
13		S7	67%	8 6		0.2	fine sand, little silt	buff				
14		S8	$\frac{1.33}{2.0}$ 67%	4 8 6		0	medium to fine sand, little silt	buff	Medium Dense	moist		
15							End of boring at 15'			wet		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.: SB 3 SHEET 2 OF 2

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
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 (FL & %)	Pen. Rate						
1		<u>S1</u>	<u>1.33 / 2.0</u>	<u>4</u>		<u>fine sand and silt - trace organic particulates (roots)</u>	<u>light gray brown</u>	<u>loose</u>	<u>dry</u>		
2		<u>S2</u>	<u>66% / 2.0</u>	<u>5</u>		<u>fine sand, fine silt</u>	<u>buff</u>	<u>stiff</u>	<u>30% - 17'</u>		
3			<u>66%</u>	<u>6</u>		<u>silt and fine sand</u>	<u>light brown</u>		<u>damp non plastic</u>		
4		<u>S3</u>	<u>0.92 / 2.0</u>	<u>7</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 / 2.0</u>	<u>7</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 / 2.0</u>	<u>8</u>		<u>DO:</u>	<u>light brown</u>		<u>damp - also fine sand & some lt. gray</u>		
9			<u>91%</u>	<u>18</u>							
10		<u>S6</u>		<u>6</u>		<u>fine sand, fine silt</u>	<u>lt. gray to lt. brown</u>	<u>medium dense</u>	<u>damp</u>		

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

BAKER REP.: D. J. Martin
BORING NO.: _____ SB4 SHEET 1 OF _____

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		S6	$\frac{1.5}{2.0}$ 75%	8 10		0	fine sand, little silt	light brown	medium dense	damp		
2		S7	$\frac{1.67}{2.0}$ 83%	9 12 15 16		0	Do.	light gray		damp		
3		S8	$\frac{1.25}{2.0}$ 62%	9 12 18 16			medium to fine sand little silt	light gray to light brown		moist		
4		S9	$\frac{1.25}{2.0}$ 62%	7 9 9 10			coarse to fine sand, trace silt clay, little coarse to fine sand coarse to fine sand, trace silt clay some fine sand	lt. gray lt. gray light gray	100 sc 25 sc loose stiff	Wet - color also orange mottled color also orange mottled		
5							End of boring at 17'					17'
6												
7												
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, 04

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>9-11-92</u>	<u>7.0</u>	<u>Partly cloudy 88°</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' 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>fine sand and silt</u>	<u>lt. grey brn</u>		<u>dry, little root particulates</u>		
2		<u>S2</u>	<u>1.42 / 2.0</u>	<u>3</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>71%</u>								
4		<u>S3</u>	<u>1.67 / 2.0</u>	<u>6</u>		<u>fine sand little silt</u>	<u>buff</u>	<u>loose</u>	<u>damp to moist</u>		
5			<u>84%</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>84%</u>	<u>6</u>					<u>wet</u>		
7						<u>End of Boring at 7'</u>					
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: D J Martin

DRILLER: Chad Chisum

BORING NO.: SB5

SHEET 1 OF 1



FIELD TEST BORING RECORD

PROJECT: Lot 203 CLEJ-01272-3.13-08/20/93
 S.O. NO.: 19133
 COORDINATES: EAST: _____ NORTH: _____
 ELEVATION: SURFACE: _____ TOP OF PVC CASING: _____

RIG: <u>N/A</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>N/A</u>				<u>9-10-92</u>	<u>1.5'</u>	<u>Sunny 90°</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 hand auger to 1.5' taking samples from 6 inches to 18 inches

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		<u>A-N</u>									
		<u>S</u>					<u>loam and silt</u>	<u>black</u>	<u>very moist</u>		<u>1'</u>
		<u>Se</u>					<u>loam and silt, some fines</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 BAKER REP.: D. J. Martin
 DRILLER: Chad Chism BORING NO.: 586 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203, Open

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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	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						0.1	<u>Fine sand and silt, little organic rich material</u>	<u>dark gray</u>		<u>dry</u>		
						0.3						
						0.2	<u>Fine sand, some silt</u>	<u>med. gray to buff</u>		<u>moist</u>		
2						0.5				<u>water @ 2.25'</u>		
3							<u>End of boring at 2.5'</u>					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: _____
DRILLER: _____

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

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203, C
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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	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		S1				<u>silt, some fine sand</u>	<u>lt. gray brown</u>		<u>dry, roots present</u>	
2		A-1	<u>1.23</u> <u>2.0</u> <u>62%</u>	<u>3</u> <u>4</u> <u>4</u>		<u>fine sand and silt</u> <u>Silt and fine sand</u>	<u>lt. brown</u>	<u>loose</u> <u>medium stiff</u>	<u>damp</u> <u>non plastic</u>	<u>2'</u>
3										
4		S3	<u>1.67</u> <u>2.0</u> <u>84%</u>	<u>6</u> <u>7</u> <u>7</u>		<u>fine sand and silt</u>	<u>buff</u>	<u>medium dense</u>	<u>diamo</u>	<u>4'</u>
5										
6		S4	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>6</u> <u>8</u> <u>7</u> <u>5</u>						
7										
8		S5	<u>1.67</u> <u>2.0</u> <u>84%</u>	<u>3</u> <u>3</u> <u>3</u> <u>4</u>		<u>Organic silt and fine sand</u>	<u>black</u>	<u>loose</u> <u>medium stiff</u>	<u>firm</u>	<u>8'</u>
9										
10		S6		<u>3</u> <u>5</u>						

DRILLING CO.: Hardin Huber, Inc.
DRILLER: C. Chism

BAKER REP.: D.J. Martin
BORING NO.: SP3 B SHEET 1 OF 2

Baker Environmental, Inc.

PROJECT: Lot 203, 4
S.O. NO.: 1913.3

CLEJ-01272-3.13-08/20/93

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		
11		S6	$\frac{1.67}{2.0}$ 89%	4 3		0.6	organic silt, some fine sand	black	stiff	damp		
12		S7	$\frac{1.67}{2.0}$ 84%	8 10 14 14		0	fine sand, some silt	light brown to buff	medium dense	damp		11.5'
14		S8	$\frac{1.17}{2.0}$ 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.: S38 SHEET 2 OF 2

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203, 1
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>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	
				RQD (Ft. & %)							Pen. Rate
1		<u>S1</u>				<u>fine sand and silt</u>	<u>lt. gray</u>		<u>dry, trace root particulates</u>		
2		<u>A-N</u>				<u>fine sand little silt</u>	<u>buff</u>	<u>loose</u>	<u>dry</u>		
3		<u>S2</u>	<u>1.33</u> <u>2.0</u> <u>67%</u>	<u>3</u> <u>2</u> <u>3</u> <u>5</u>		<u>fine sand and silt, trace clay</u>	<u>lt. brown</u>			<u>3'</u>	
4		<u>S3</u>	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>6</u> <u>5</u> <u>4</u> <u>5</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>		
5		<u>S4</u>	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>8</u> <u>7</u> <u>6</u> <u>5</u>		<u>Silt, some fine sand, little clay</u>	<u>lt. yellow brown</u>	<u>stiff</u>	<u>damp non plastic</u>		
6		<u>S5</u>	<u>1.67</u> <u>2.0</u> <u>83%</u>	<u>5</u> <u>4</u> <u>4</u> <u>4</u>		<u>fine sand and silt</u>	<u>lt. brn</u>	<u>loose</u>		<u>1'</u>	
7		<u>S6</u>		<u>3</u> <u>4</u>		<u>clay and silt, trace fine sand</u>	<u>mottled</u> <u>light brown</u> <u>gray</u> <u>orange</u>	<u>medium stiff</u>	<u>damp</u>	<u>26'</u>	

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: Chad Chism

BAKER REP.: D.J. Martin
 BORING NO.: SB9 SHEET 1 OF 2

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19/33

CLEJ-01272-3.13-08/20/93

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		S ₆	$\frac{117}{2.8}$ 99%	5 6		0	clay and silt, trace fine sand	mottled brown gray orange	stiff	damp	
2		S ₇	$\frac{183}{2.0}$ 92%	2 3 4		0	clay, some silt, trace fine sand	medium stiff	damp		
4		S ₈	$\frac{2.0}{2.0}$ 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'
5	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: Brad Clisum

BAKER REP.: D.J. Martin
 BORING NO.: 589 SHEET 2 OF 2

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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	<u>2'</u>		<u>3 1/4" ID</u>		<u>9-12-92</u>	<u>15</u>	<u>83° sunny</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 cased to surface. DO = D10

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		S1	NA	NA			fine sand and silt, trace root particulates	lt. grey brown	—	Dry	
2		A-N	1.92 2.0	4 3		0.9	DO. except little silt	lt brown	Loose	damp	25'
3		S2	96%	4			silt and fine sand	lt. brown	Loose	damp	31'
4		S3	1.42 2.0	6 5		0.3	Fine sand little silt	buff			
5			63%	4							
6		SA	1.25 2.0	8 4		0.9					
7				4							
8		S5	1.67 2.0	6 3		1.4	Silt and fine sand, trace clay		Loose	damp non-plastic	8'
9			84%	4			silt and clay, trace fine sand			mostly plastic	
10		S10		6							

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

BAKER REP.: D. J. Martin
 BORING NO.: SB10 SHEET 1 OF 2

PROJECT: Lot 203, A
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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	$\frac{1.17}{2.0}$ 59%	3 5		0.2	Silt and clay, trace fine sand in partings	Lt. brown	medium stiff	damp mostly plastic		
2		S7	$\frac{1.75}{2.0}$ 88%	9 6 10 12		0.4	fine sand some silt	Very light brown buff	medium dense	damp, moist		
3		S8	$\frac{1.33}{2.0}$ 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 21 Open Site
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>9-1-92</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	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	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color		
1		S1 A-N					fine sand and silt	lt. gray brn	loose	dry, root particulates present		
2		S2	<u>1.42 / 2.0</u> <u>71%</u>	<u>2</u> <u>3</u> <u>4</u>			fine sand, little silt	lt. yellow brown				
3							TOP 2" fine sand little silt					
4		S3	<u>1.83 / 2.0</u> <u>92%</u>	<u>3</u> <u>4</u> <u>9</u>			Bottom 20" fine sand and silt trace clay	lt. brn	loose			
5										moist water at 5.5'		
6		S4	<u>1.33 / 2.0</u> <u>67%</u>	<u>5</u> <u>11</u> <u>13</u>		NA	top 9" silt, some clay, little fine sand in partings Bottom 5" fine sand, little silt	moist orange gray medium gray	medium dense	wet		6.4' 7'
7							End of Boring at 7.0'					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: Chad Chisma

BAKER REP.: D.J. Martin
 BORING NO.: SB11 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
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"</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 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-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</u> <u>2.0</u>	<u>1</u> <u>1</u>		<u>Silt and fine sand</u>	<u>light yellow brown</u>	<u>very loose</u>	<u>dry</u>		
3			<u>54%</u>	<u>2</u>							
4		<u>S3</u>	<u>1.0</u> <u>2.0</u>	<u>2</u> <u>2</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>loose</u>	<u>dry</u>		
5			<u>50%</u>	<u>6</u>							
6		<u>S4</u>	<u>1.42</u> <u>2.0</u>	<u>8</u> <u>10</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>dry</u>		
7			<u>71%</u>	<u>11</u>							
8		<u>S5</u>	<u>1.58</u> <u>2.0</u>	<u>8</u> <u>10</u>		<u>fine sand, little silt</u>	<u>light brown to buff</u>	<u>medium dense</u>	<u>dry</u>		
9			<u>79%</u>	<u>14</u>							
10		<u>S6</u>		<u>12</u> <u>10</u>							

DRILLING CO.: Hardin Huber Inc
DRILLER: Chad Chism

BAKER REP.: D. J. Martin
BORING NO.: 5012 SHEET 1 OF 2

Baker Environmental, Inc.

PROJECT: Lot 203,
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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	DMT (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
11		S6	1.25 75%	8 10		1.9	fine sand, little silt	light brown	medium dense	dry, damp at tip, color also orange mottled		
12		S7	1.25 20 63%	8 15 10		1.8		light brown w/ orange mottling	medium dense	damp, Top 4" orange brown		
13		S8	1.52 20 79%	6		1.5	Top 1" fine sand & silt	light gray w/ orange mottling	medium	damp		13'
14				7			Silt & clay, little G. sand	light gray w/ orange mottling	dense			
15		S9	1.83 20 92%	5		1.3	clay and silt, some fine sand	light gray	loose	damp		14.5'
16				3								
17		S10	1.5 20 76%	4		NA	silt & fine sand, some clay	light gray				17'
18				4						medium dense	Wet	
19				15			End of boring at 19 ft.					
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, 1

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19633

COORDINATES: EAST: _____

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=DID

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 (FL & %)	Pen. Rate	PID (ppm)	(Name, Grain Size, Principal Constituents, Etc.)		Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1				0	Silt and fine sand	medium gray		dry		1'
2		S2	<u>1167</u> <u>2.0</u> <u>84%</u>	<u>3</u> <u>4</u> <u>4</u>		0	fine sand, little silt	light yellow brown	loose	dry		
3		S3	<u>142</u> <u>2.0</u> <u>71%</u>	<u>4</u> <u>3</u> <u>4</u>		0.5						
4		S3	<u>142</u> <u>2.0</u> <u>71%</u>	<u>4</u> <u>3</u> <u>4</u>		0.5	Silt and fine sand	light brown	medium stiff	damp, non plastic		4.5'
5		S4	<u>132</u> <u>2.0</u> <u>67%</u>	<u>5</u> <u>4</u> <u>3</u>		0						
6		S4	<u>132</u> <u>2.0</u> <u>67%</u>	<u>5</u> <u>4</u> <u>3</u>		0						
7		S5	<u>175</u> <u>2.0</u> <u>88%</u>	<u>5</u> <u>7</u> <u>8</u>		0	DO. except trace clay		stiff	damp non plastic		
8		S5	<u>175</u> <u>2.0</u> <u>88%</u>	<u>5</u> <u>7</u> <u>8</u>		0						
9		S6		<u>4</u>								
10		S6		<u>4</u>								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: C. Chism

BAKER REP.: D. J. Martin

BORING NO.: SB13

SHEET 1 OF 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 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		
11		S6	$\frac{1.75}{2.0}$ 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		
14		S8	$\frac{1.25}{2.0}$ 63%	4 8 10 12		0	fine sand, little silt	buff		damp		
16		S9	$\frac{1.67}{2.0}$ 84%	7 12 13 13		0.2						
18		S10	$\frac{1.25}{2.0}$ 63%	3 9 7 10		0						
20		S11	$\frac{1.5}{2.0}$ 75%	7 7 14 18		0						
22		S12	$\frac{1.67}{2.0}$ 84%	8 10 12 15		0						
24		S13	$\frac{1.33}{2.0}$ 67%	7 14 14 16		0	fine sand, some silt	buff	medium dense			
25										wet		water at 24.5' 25'
6							End of boring at 25'					

DRILLING CO.: Hardin Huber
DRILLER: C. Chism

BAKER REP.: D J Martin
BORING NO.: SP 13 SHEET 2 OF 2

FIELD TEST BORING RECORD

PROJECT: Lot 203, C

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>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. DD = D100

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>S1</u>				<u>0</u>	<u>fine sand and silt</u>	<u>lt. gray brown</u>		<u>dry</u>		
2		<u>S2</u>	<u>1.62 / 2.0</u>	<u>6 / 10</u>		<u>0.2</u>	<u>fine sand and silt</u>	<u>lt. brn</u>	<u>medium dense</u>	<u>dry</u>		<u>2.5'</u>
3			<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>1.5 / 2.0</u>	<u>4 / 5</u>		<u>0</u>						
5			<u>75%</u>	<u>5</u>								
6		<u>S4</u>	<u>1.83 / 2.0</u>	<u>9 / 10</u>		<u>0.3</u>	<u>fine sand some silt</u>	<u>lt. gray with brown spots</u>				
7			<u>91%</u>	<u>11</u>								
8		<u>S5</u>	<u>1.33 / 2.0</u>	<u>10 / 5</u>		<u>0</u>	<u>DD, 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

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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 7/8"</u>		<u>3 1/4" ID</u>		<u>9-11-92</u>	<u>15</u>	<u>88° overcast</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 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 ROCK	ELEVATION
		Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		
1		S1 A-N				fine sand and silt	lt. brn gray		dry		
2		S2	1.17 2.0	3 2 5 3		silt and fine sand	brown	soft	dry		2'
3			59%			fine sand, little silt	buff	loose			3'
4		S3	1.0 2.0	1 2	3.8	fine sand, some silt	buff	very loose	dry		4'
5			60%			silt and fine sand	lt. brown	soft			
6		S4	1.67 2.0	5 3 5 4		DO.	lt. brown	medium stiff	damp		
7			84%								
8		S5	1.75 2.0	5 6 5 5		silt and fine sand fine sand, little silt	buff to lt. brown		damp		7.6'
9			89%								
10		S6		5 7							

DRILLING CO.: Hardin Huber Inc
DRILLER: Chad Chism

BAKER REP.: D. J. Martin
BORING NO.: SB15

SHEET 1 OF 1

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						
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	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						water at 14.5	
5							fine sand and silt	lt brn		wet	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
DRILLER: Chad Chism

BAKER REP.: D.J. Martin
BORING NO.: SB15 SHEET 7 OF 2

FIELD TEST BORING RECORD

PROJECT: lot 203 a
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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>9-11-92</u>	<u>0 17 ft</u>	<u>88° 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
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	DVA P/B (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>dry, root particles present</u>	
2		<u>A-1</u>	<u>1.5</u>	<u>6</u>		<u>0.2</u>	<u>fine sand, little silt</u>	<u>buff w/lt, brn mottling</u>	<u>med or dense</u>	<u>dry</u>	
3		<u>S2</u>	<u>2.0</u>	<u>6</u>							
4			<u>75%</u>	<u>7</u>							
5		<u>S3</u>	<u>1.42</u>	<u>5</u>		<u>0.2</u>	<u>Top 13" fine sand, little silt</u>	<u>buff</u>	<u>loose</u>	<u>dry</u>	
6			<u>2.0</u>	<u>5</u>			<u>bottom 8" fine sand and silt</u>	<u>brown</u>		<u>non plastic</u>	
7		<u>S4</u>	<u>7.1%</u>	<u>5</u>			<u>Top 14" silt and fine sand</u>		<u>stiff</u>	<u>dry</u>	<u>6.5'</u>
8			<u>1.83</u>	<u>7</u>		<u>0</u>	<u>bottom 8" fine sand, little silt</u>	<u>ff. brn to buff</u>	<u>med or dense</u>		<u>7'</u>
9		<u>S5</u>	<u>2.0</u>	<u>8</u>			<u>fine sand and silt</u>	<u>brown</u>	<u>med or dense</u>	<u>damp, non plastic</u>	
10			<u>1.25</u>	<u>8</u>			<u>fine sand little silt</u>	<u>buff</u>			
		<u>S6</u>	<u>2.0</u>	<u>10</u>							
			<u>63%</u>	<u>10</u>							
				<u>6</u>		<u>0</u>					
				<u>7</u>							

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: Chad Chism

BAKER REP.: D.J. Martin
 BORING NO.: SB 16 SHEET 1 OF 2

Lot # 20
 PROJECT: Open Store
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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 84%	7 7		0	fine sand and silt	lt orange brown	medium	damp		11'
12		S7	1.5 2.0	4 5 7 8		0	Silt and fine sand, trace clay	orange brown	stiff	damp		12.7'
13			75%				fine sand, little silt	buff	medium	damp		
14		S8	1.83 2.0	4 5 13 15		0			medium dense			
15			92%							moist water at 15'		
16		S9	1.58 2.0	5 8 13 15		NA	fine sand, little silt	gray brown	medium dense	wet		17'
17			79%				End of boring @ 17'					
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.: SB16 SHEET 2 OF 2

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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>	—	—
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140</u>								
FOOT	<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 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>Silt and fine sand, trace organics</u>	<u>medium gray</u>		<u>dry</u>		
2		<u>S2</u>	<u>1.25</u> <u>2.0</u> <u>63%</u>	<u>5</u> <u>6</u> <u>6</u>		<u>fine sand, little silt</u>	<u>buff w/light brown mottling</u>	<u>medium dense</u>	<u>dry</u> <u>light brown mottled color</u>		
3		<u>S3</u>	<u>1.75</u> <u>2.0</u> <u>88%</u>	<u>2</u> <u>3</u> <u>3</u>		<u>fine sand, little silt</u>	<u>buff to light brown</u>	<u>loose</u>	<u>top 6" dry</u> <u>bottom 15" damp</u>		
4		<u>S4</u>	<u>1.5</u> <u>2.0</u> <u>75%</u>	<u>4</u> <u>3</u> <u>3</u>		<u>fine sand, little silt</u>	<u>light brown</u>		<u>damp</u> <u>Color changes to buff at tip of split spoon</u>		
5		<u>S5</u>	<u>1.58</u> <u>2.0</u> <u>79%</u>	<u>6</u> <u>6</u> <u>7</u> <u>10</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>		
6		<u>S6</u>		<u>6</u> <u>6</u>							

DRILLING CO.: Hardin Huber Inc
 DRILLER: Chad Chism

BAKER REP.: D. J. Martin
 BORING NO.: 5817 SHEET 1 OF 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 ROCK	ELEVATION
	ROCK	Type-No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		S6	7 10	$\frac{1.0}{2.0}$ SP2		0	fine sand, little silt	buff	medium dense	damp	
2			7 10 13 15	$\frac{1.25}{2.0}$		0	fine sand and silt	buff	medium dense	damp	
3		S7		63%			Do.				
4			2 7 9 16	$\frac{1.17}{2.0}$		NA				moist	
5		S8		59%						Water at 15'	
6			4 7 9 10	$\frac{1.67}{2.0}$		NA	Do.	lt. brn w/orange mottling	medium dense	wet	
7		S9		84%							17'
8							End of Boring at 17'				
9											
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
0											

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203, 1

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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"</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. Bore hole 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)						
1		<u>S1</u>										
		<u>A-N</u>										
2		<u>S2</u>	<u>1.17 / 2.0</u>	<u>38</u>			<u>fine grained sand, little silt</u>	<u>buff</u>	<u>medium dense</u>	<u>dry</u>		
3			<u>59%</u>	<u>76</u>								
4		<u>S3</u>	<u>1.5 / 2.0</u>	<u>34</u>			<u>fine grained sand, little silt</u>	<u>buff</u>	<u>loose</u>	<u>damp</u>		
5			<u>75%</u>	<u>55</u>								
6		<u>S4</u>	<u>1.67 / 2.0</u>	<u>34</u>			<u>fine grained sand, some silt</u>	<u>buff to light brown</u>	<u>loose</u>	<u>damp</u>		
7			<u>89%</u>	<u>57</u>								
8		<u>S5</u>	<u>1.58 / 2.0</u>	<u>7</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>		
9			<u>79%</u>	<u>11</u>								
10		<u>S6</u>		<u>13</u>								
				<u>14</u>								
				<u>7</u>								
				<u>11</u>								

DRILLING CO.: Hardin Huber Inc

BAKER REP.: D. J. Martin

DRILLER: Chad Chism

BORING NO.: SB18

SHEET 1 OF 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		S6	$\frac{1.5}{2.0}$ 75%	13 14	$\frac{1.5}{2.0}$ 75%	0.1	fine sand, little silt, trace clay in stringers	light brown		moist, color changes to orange brown at tip (2")		
12		S7	$\frac{1.5}{2.0}$ 75%	3 4 3	$\frac{1.5}{2.0}$ 75%	0.4	fine sand and silt	lt. brn w/ orange mottling to buff		moist		
13		S8	$\frac{1.5}{2.0}$ 75%	8 10	$\frac{1.5}{2.0}$ 75%	1.5	silt, some clay, little fine sand	lt. gray orange mottled		moist		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												

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NUMBER: _____
 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>3/4" ID</u>		<u>9-13-92</u>	<u>3</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 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						
1		<u>S1</u>				<u>fine sand and silt</u>	<u>brown</u>	<u>medium dense</u>	<u>damp</u>		
2		<u>S2</u>	<u>1.83 / 2.0</u>	<u>7 / 5</u>		<u>fine sand, little silt</u>	<u>buff</u>	<u>medium dense</u>	<u>moist wet</u>		<u>water at 2.5 / 3'</u>
3			<u>92%</u>	<u>6</u>		<u>End of Boring at 3'</u>					
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: C. Chism

BAKER REP.: D J Martin
 BORING NO.: SB19 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>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	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. & %)	Per. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1				0	Silt and fine sand	gray black		dry	
2		S2	<u>0.92 / 2.0</u>	<u>6 / 6 / 5</u>		0	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 / 5 / 7 / 8</u>		0	fine sand, little silt	dark brown		moist water at 4.5'	
5			<u>100%</u>	<u>8</u>						wet	
6		S4	<u>1.12 / 2.0</u>	<u>7 / 9 / 5 / 5</u>		0	silt and fine sand	light gray		wet	<u>6.6'</u>
7			<u>56%</u>	<u>5</u>							<u>7'</u>
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

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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>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.	SPT Blows Per 0.5'	Lab. Class.	HNUK 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		S1 A-W				.8	SILT w/ some sand	dk brown dk gray	Loose	Damp Root material	5'
2		S2	1.5 2.0	6 5 4 5		.9	SAND fine grained w/ trace silt	Lite Brown	medium dense to Loose	moist orange streaks	
3											
4		S3	1.6 2.0	2 3 3		.9		Lite Brown to dk Brown	Loose	moist	
5			80%	3							5'
6			1.5 2.0	2 2 4		.9	SAND fine grained	dk Brown	Loose	moist	
7			75%	5							
8			1.8 2.0	3 4 7		.9		dk Brown	medium dense	Wet	
9			90%	7							9'
10							END of Boring 9'				

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

BAKER REP.: J.F. Zimmerman, Jr.
 BORING NO.: _____ CR#21 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>7'</u>	<u>sunny/warm</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>MSH</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. & %)	RQD (Ft. & %)						
1		<u>51</u> <u>A-N</u>			<u>1.2</u>	<u>SILT w/ some sand</u>	<u>gray to buff</u>	<u>Loose</u>	<u>Damp soil / Plant material</u>	<u>5'</u>
2		<u>52</u>	<u>13</u> <u>2.0</u>	<u>6</u> <u>7</u> <u>4</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%</u> <u>.9</u> <u>2.0</u>	<u>2</u> <u>5</u> <u>8</u>	<u>1.2</u>	<u>SAND fine grained</u>	<u>light gray</u>	<u>medium dense</u>	<u>Moist orange streaks</u>	
4		<u>53</u>	<u>45%</u> <u>1.6</u> <u>2.0</u>	<u>5</u> <u>4</u> <u>3</u> <u>4</u>	<u>1.1</u>		<u>Brown to brown</u>	<u>Loose</u>	<u>Wet</u>	
7			<u>80%</u>	<u>4</u>		<u>END of Boring</u> <u>7'</u>				

DRILLING CO.: Hardin Huber, Inc

DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr

BORING NO.: ASB SB # 22 SHEET 1 OF 1

open storage area

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: SITE 6 1
S.O. NO.: 19133-50-
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>8/30/92</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 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>0.5</u>	<u>S-1</u>			<u>SAND, FINE GRAINED, TRACE SILT</u>	<u>LT. BROWN</u>	<u>MED. DENSE</u>	<u>DRY DRMP</u>			
2	<u>1.0</u>	<u>A-NS</u>	<u>14</u>								
3		<u>S-2</u>	<u>7</u>								
4	<u>3.0</u>		<u>9</u>	<u>0</u>						<u>3.0'</u>	
5		<u>S-3</u>	<u>4</u>		<u>SAND, FINE GRAINED, TRACE SILT, SOME CLAY</u>	<u>CLAY</u>	<u>LOOSE</u>	<u>MOIST</u>			
6	<u>5.0</u>		<u>4</u>	<u>0</u>							
7					<u>END OF BORING</u>	<u>AT</u>	<u>5.0'</u>				
8											
9											
10											

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: Lot 202
 S.O. NO.: 1933
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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>STC</u>		<u>HSA</u>						
HAMMER WT.	<u>110</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 5' taking continuous split spoon samples
Porosites gravel 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	ROCK	
1		S1				1.1	SILT W/ SOME SAND	Gray to Buff	Loose	Damp Gravel Root Plant material		
2		A-N	1.5/20	16			SAND fine grained	lt. Brown to	medium dense	moist		
3		S2	75%	12		1.1	ULTRAC FINE SILT	OK Brown	Loose			3'
4			1.6/20	4			SAND fine grained	DK Brown	medium dense	Wet		
5			80%	4		1.0						5'
6							END of Boring					4'

DRILLING CO.: Garland Hatcher, Inc.
 DRILLER: Terry Mize

BAKER REP.: J.E. Zimmerman, Jr.
 BORING NO.: _____ 24 SHEET OF _____

FIELD TEST BORING RECORD

PROJECT: SITE 6 1
 S.O. NO.: 19133-50-
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>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 CROUTED 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						
0.5		S-1										
1.0		A-NS					SAND, FINE GRAINED, TRACE SILT	LT BROWN GRAY	MED. DENSE	DRY DAMP		
2.0		S-2		4								
3.0			100%	3			SAND, FINE GRAINED, LITTLE SILT	BROWN TAN				2.75
4.0		S-3		4			SAND, FINE GRAINED TRACE SILT	LOOSE				3.0
5.0			100%	5						MOIST		
6.0		S-4		4				LT BROWN	LOOSE			
7.0			100%	5						WET, WATER AT 7.0		
8.0							END OF BORING	AT	7.0'			
9.0												
10.0												

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

BAKER REP.: R. SEVCIK
 BORING NO.: SD25

SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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
	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	ROCK
1		S1 A-N				.8	SILT w/ some sand	Gray	Loose	Damp	.5'
2		S2	1.6 2.0	6 6		.7	SAND fine grained w/ trace silt	dk gray to lite brown	medium dense	Moist	
3			80%	12		.8	SAND fine grained	lite gray	medium dense	Wet	3'
4			1.6 2.0	6 8		.8					
5			80%	11			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.: _____ #26 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>8-31-92</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 sample. 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						Hardness
1		A-10	12		1.1 SILT with some sand	light gray	medium dense			
2		A-2	10		1.2 SAND fine grained with some silt	light gray	medium dense			
3			11		1.3 SAND fine grained	light gray	medium dense		3'	
4			4			light gray	medium dense			
5			5		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# 27 SHEET 1 OF 1

open storage area

FIELD TEST BORING RECORD

PROJECT: SITE 6 1
 S.O. NO.: 19133-50
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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'		5.0'		8/30/92	9.0	SUNNY 85°-90°F	7.5	TOB
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: BORING ADVANCED TO 9 FEET, TAKING SPLIT SPOON SAMPLES FROM 1'-9' AT TWO FOOT INTERVALS. BOREHOLE CEMENTED 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	0.5		SAND, FINE GRAINED TRACE SILT	LT. BROWN BLACK	DENSE	DRY DAMP			
3.0			24 30 25								
4.0		S-3	1.3								
5.0			6 6 13								
6.0		S-4	1.0								
7.0			4 4 4								
8.0		S-5	2.0								
9.0			4 5 6 7								
10.0					END OF BORING						

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

BAKER REP.: R. SEVCIK
 BORING NO.: 5328 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 200

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

RIG: <u>mobile Drill 2</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>7'</u>	<u>Sunny/warm</u>		
LENGTH	<u>2'</u>		<u>1'</u>						
TYPE	<u>STD</u>		<u>MSH</u>						
HAMMER WT.	<u>140</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Advanced boring 7' 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.	HAND 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 A-N</u>				<u>1.1</u>	<u>SILT w/ some sand</u>	<u>gray to buff</u>	<u>Loose</u>	<u>Damp Gravel</u>	
2			<u>1.0 / 2.0</u>	<u>6</u>		<u>1.1</u>	<u>SAND fine grained w/ trace silt</u>	<u>light 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</u>		<u>3</u>	
4		<u>S3</u>	<u>1.6 / 2.0</u>	<u>W</u>		<u>1.6</u>		<u>Brown to light brown</u>	<u>Loose</u>	<u>moist</u>	
5			<u>80%</u>	<u>W</u>							
6			<u>1.4 / 2.0</u>	<u>W</u>		<u>1.2</u>		<u>light brown</u>	<u>Loose</u>	<u>Wet orange streaks</u>	
7			<u>70%</u>	<u>5</u>			<u>END of Boring</u>			<u>7</u>	
8											
9											
10											

DRILLING CO.: Hardy Huber, Inc

BAKER REP.: T.E. Zimmerman, JR.

DRILLER: Terry Price

BORING NO.: see storage cabinet 29 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: SITE 6 L
 S.O. NO.: 19133-50-
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 1/4" 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	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. & %)						
0.5		S-1								0.5
1.0		A-NS			SAND, FINE GRAINED, TRACE SILT	DK GRAY BLACK		DRY BUMP		
2.0		S-2	1.7		SAND, FINE GRAINED, TRACE SILT	BROWN	MED. DENSE			2.5
3.0			85%					MUST WET, WATER AT 3.5'		3.75
4.0		S-3	1.0		SAND, FINE GRAINED, LITTLE SILT	LT BROWN	MED. DENSE			5.0
5.0			50%		SAND, FINE GRAINED, TRACE SILT					
6.0					END OF BORING AT 5.0'					
7.0										
8.0										
9.0										
10.0										

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

BAKER REP.: R. SEVCIK
 BORING NO.: SB30

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

ANC

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>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 sample
Borehole grouted to surface.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	H.N.A. 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>S1</u>				<u>.7</u>	<u>Silt w/ some sand</u>	<u>Gray</u>	<u>Loose</u>	<u>Damp</u>		<u>0.5'</u>
2		<u>A-W</u>	<u>1 1/2 / 20</u>	<u>5</u>			<u>SAND fine grained</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>dk gray to lite gray</u>	<u>medium dense</u>			<u>3'</u>
4			<u>1 1/2 / 20</u>	<u>5</u>			<u>SAND fine grained</u>	<u>light gray</u>	<u>medium dense to loose</u>	<u>wet</u>		
5			<u>75%</u>	<u>00</u>		<u>.7</u>	<u>END of Boring 5'</u>					<u>5'</u>
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Baker Inc

BAKER REP.: J.E. [unclear]

DRILLER: TERRY MIZZ

BORING NO.: open storage # 21 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>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.	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		Hum. PID (ppm)	Color	Hardness		
1		<u>S1</u>				<u>ILT w/ some sand</u>	<u>gray to buff</u>	<u>Loose</u>	<u>Damp</u>		<u>0.5'</u>
2		<u>A-N</u>	<u>1/6</u>	<u>7</u>		<u>SAND fine grained</u>		<u>medium dense</u>	<u>moist</u>		
3			<u>20</u>	<u>6</u>	<u>1.2</u>	<u>w/ trace silt</u>	<u>Brown</u>				<u>3'</u>
4			<u>80%</u>	<u>6</u>		<u>SAND fine grained</u>					
5		<u>S3</u>	<u>1.5</u>	<u>12</u>							
6			<u>20</u>	<u>4</u>	<u>1.1</u>		<u>Brown</u>	<u>medium dense</u>	<u>moist</u>		
7			<u>75%</u>	<u>8</u>							
8			<u>1.4</u>	<u>4</u>	<u>1.1</u>		<u>Brown to tan</u>	<u>medium dense</u>	<u>moist</u>		<u>7'</u>
9			<u>20</u>	<u>8</u>							
10			<u>70%</u>	<u>11</u>		<u>END of Boring</u>					

DRILLING CO.: Hardin Huber, Inc

BAKER REP.: J.E. Zimmerman, Jr

DRILLER: Terry Mize

BORING NO.: SB # 32 SHEET 1 OF 1

open storage area

FIELD TEST BORING RECORD

PROJECT: SITE 6 LI
 S.O. NO.: 19133-50-
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>8/30/92</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>HS4</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
					Pen. Rate	PID (ppm)						
1		S-1				0						
		A-NS										
2		S-2	1.2	11		0	SAND, FINE GRAINED	LT. BROWN	DENSE	DRY PRIMP		
			60%	22			TRACE SILT	BROWNISH BROWN				
3				18				GRAY				
			1.4	4		0	SAND, FINE GRAINED, TRACE SILT, TRACE ORGANICS	WHITE BROWN				3.5
4		S-3		3				WHITE BROWN	LOOSE			3.25
			70%	4			SAND, FINE GRAINED, TRACE SILT					5.0
5				2		0	SAND, FINE GRAINED, TRACE SILT, SOME CLAY	LT. BROWN		MOIST		
			1.2	3					LOOSE	WET, WATER AT		6.10
6		S-4		3		0	SAND, FINE GRAINED, TRACE SILT	LT. GRAY				
			60%	5								7.0
7							END OF BORING	AT	7.0'			
8												
9												
10												

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

BAKER REP.: R. SEVCIK
 BORING NO.: SB33

SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

02

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	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						HNW PID (ppm)
1		<u>S1</u>				<u>SILT w/ some sand</u>	<u>Gray</u>	<u>Loose</u>	<u>Damp Plant material</u>		
2		<u>A-N</u>	<u>16/20</u>	<u>17</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>80%</u>	<u>21</u>		<u>SAND fine grained</u>	<u>dk brown to dk gray</u>	<u>medium dense</u>	<u>Wet</u>		
4			<u>1.5/20</u>	<u>5</u>							
5			<u>75%</u>	<u>10</u>	<u>.9</u>					<u>5'</u>	
6						<u>End of boring 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

FIELD TEST BORING RECORD

PROJECT: SITE 6 1
 S.O. NO.: 1913-50
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>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	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	<u>0.5</u>	<u>S-1</u>			<u>SAND, FINE GRAINED</u> <u>TRACED SILT</u>	<u>LT. BROWN</u>	<u>MED. DENSE</u>	<u>DRY DAMP</u>			
2	<u>1.0</u>	<u>A-KS</u>	<u>1.2</u>	<u>4</u>					<u>0</u>		
3	<u>3.0</u>	<u>S-2</u>	<u>60%</u>	<u>7</u>					<u>0</u>		
4		<u>S-3</u>	<u>1.6</u>	<u>3</u>					<u>0</u>		
5	<u>5.0</u>		<u>90%</u>	<u>8</u>			<u>WET, WATER AT 5.0</u>				
6					<u>END OF BORING AT 5.0'</u>	<u>AT</u>					
7											
8											
9											
10											

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

BAKER REP.: R. SEVCIK
 BORING NO.: SIB 35 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>8-30-92</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
Porehole 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		MNW PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
1		<u>S1</u>				<u>SILT w/ some sand</u>	<u>gray buff</u>	<u>Loose</u>	<u>Damp</u>	<u>0.5</u>	
2		<u>S2</u>	<u>1.8 / 2.0</u>	<u>22</u>		<u>SAND fine grained w/ trace silt</u>	<u>light gray</u>	<u>Loose</u>	<u>moist orange streaks</u>		
3			<u>90%</u>	<u>23</u>		<u>SAND fine grained</u>	<u>light gray</u>	<u>Loose</u>	<u>moist</u>	<u>3'</u>	
4			<u>1.7 / 2.0</u>	<u>24</u>							
5			<u>85%</u>	<u>25</u>		<u>END of Boring 5'</u>			<u>wet orange streaks</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.: open storage #36 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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 (FL & %)	Pen. Rate						
1		<u>51</u> <u>A-N</u>				<u>SILT w/ some sand</u>	<u>gray</u>	<u>Loose</u>	<u>Damp</u>	<u>Root material</u>	
2			<u>1.3</u> <u>20</u>	<u>7</u>		<u>SAND fine grained w/ some silt</u>	<u>Brown</u>	<u>medium dense</u>	<u>MOIST</u>		
3			<u>65%</u> <u>1.6</u> <u>20</u>	<u>9</u>	<u>1.1</u>	<u>fine grained sand</u>	<u>Brown to light brown</u>	<u>medium dense</u>			<u>3'</u>
4		<u>53</u>	<u>80%</u> <u>1.5</u> <u>20</u>	<u>3</u>	<u>1.2</u>	<u>fine grained sand</u>	<u>dk brown to brown</u>	<u>medium dense</u>	<u>MOIST</u>		
5			<u>80%</u> <u>1.5</u> <u>20</u>	<u>3</u>		<u>fine grained sand</u>	<u>dk brown to brown</u>	<u>medium dense</u>	<u>MOIST</u>		
6			<u>15%</u> <u>1.5</u> <u>20</u>	<u>7</u>	<u>1.3</u>	<u>fine grained sand</u>	<u>dk brown to brown</u>	<u>medium dense</u>	<u>MOIST</u>		<u>wa</u> <u>6</u> <u>6'</u>
7			<u>15%</u>	<u>7</u>		<u>END of Boring 7'</u>					<u>7'</u>
8											
9											
10											

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

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

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: _____
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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	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. & %)
1		S-1 A.N.	N/A	N/A							
2		S-2	2.0 2.0	6 8							
3			100%	10							
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Dandini Tubers Inc.
DRILLER: C. [unclear]

BAKER REP.: J. Hill
BORING NO.: 65238 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: _____
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____
 NORTH: _____
 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 1/2"</u>		<u>3.25" & 3.25" / 3.25" & 3.25"</u>		<u>10-12-92</u>	<u>0'-21'</u>	<u>Cool, Wet</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>SS</u>		<u>H.S.I.</u>						
HAMMER WT.	<u>30</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.		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.N.	N/A	N/A			Sand medium to fine grained, white color	tan	medium dense	damp		
2		S-2	1.5 2.0 65%	11 8 13			Sand medium to fine grained, white color	tan	medium dense	damp		
3							Sand medium to fine grained, trace silt	gray	medium dense	damp		
4		S-3	1.0 2.0 70%	11 5 17			Sand medium to fine grained, trace silt	tan	medium dense	damp		
5							Sand medium to fine grained, trace silt	tan	medium dense	damp		
6		S-4	1.0 2.0 1.0	11 5 17			Sand medium to fine grained, trace silt	tan	medium dense	damp		
7							Sand medium to fine grained, trace silt	tan	medium dense	damp		
8		S-5	1.0 2.0 1.0	11 5 17			Sand medium to fine grained, trace silt	tan	medium dense	damp		
9							Sand medium to fine grained, trace silt	tan	medium dense	damp		
10		S-6	1.0 2.0 1.0	11 5 17			Sand medium to fine grained, trace silt	tan	medium dense	damp		

DRILLING CO.: Am. Drilling, Inc. BAKER REP.: J. Baker
 DRILLER: A. A. Baker BORING NO.: 19133 SHEET 1 OF 2



FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: _____
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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			2.0	9					NET GROUNDWATER at 10.8'		
2		S-7	2.0	4		SAND, medium grained LITTLE SILT	brown	medium dense	WET		
3			100%	6							
4		S-8	2.0	10		SAND, medium grained LITTLE SILT	brown	medium dense	WET		
5			100%	14							
6		S-9	2.0	8		SAND, medium grained, LITTLE SILT	brown	dense	WET		
7			100%	14							
8		S-10	2.0	15		SAND medium grained LITTLE SILT	brown	dense	WET		
9			100%	16							
0		S-11	2.0	18		SAND, medium grained, LITTLE SILT	brown	medium dense	WET		
1			100%	21							
2				22							
3				32							
4											
5											
6											
7											
8											
9											
0											

DRILLING CO.: Baker Environmental, Inc.
DRILLER: [Signature]

BAKER: J. Cull
BORING NO.: 6SB 39 SHEET 2 OF 2

FIELD TEST BORING RECORD

PROJECT: _____
 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 IN</u>		<u>3.25" TL A.25" TL</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 ROCK	ELEVATION	
		Type No. (N = No Samp.)									(Fl. & %)
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	5 5 1/4	Sand, medium to fine grained, little silt	brown	very dense	damp			
3			40%								
4		S-3	0.0 2.0	17 5 1/4	Note: wood fragments recovered						
5			0%								
6		S-4	0.0	8 800	Note: wood fragments recovered						
7			0%	20							
8		S-5	1.1 2.0	15 17	Sand, medium to fine grained, little silt	brown	dense	moist			
9			0%	21							
10		S-6	1.2 2.0	6 11	Sand, medium to fine grained, little silt	brown	medium dense	wet, groundwater at 9.62			
			60%	17							

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

BAKER REP.: J. C. C.
 BORING NO.: 65104 SHEET 1 OF 2



FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: _____
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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				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 Chasen

BAKER: J. Culp
BORING NO.: 65841 SHEET 202

FIELD TEST BORING RECORD

PROJECT: CLEJ-01272-3.13-08/20/93
 S.O. NO.: 19133
 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>3.25" 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	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 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%									
4		S-3	0.0 5.0	7 51			Metal fragments in auger cuttings but no recovery in split spoon.					
5			0%									
6		S-4	1.0 2.0	7 12			Sand, medium to fine grained, little silt	brown	medium dense	Moist, Rubber fragments		
7			50%	13								
8		S-5	0.5 2.0	4 51			Sand, medium to fine grained, little silt	Brown	very dense	Moist		
9			50%									
10		S-6	0.5 2.0	3 5			Sand, medium to fine grained, little silt	brown	medium dense	Moist, Rubber fragments at 9.0'		

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: J. PRISM

BAKER REP.: J. PRISM
 BORING NO.: 1-5342 SHEET 2 OF 2

PROJECT: _____
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hanna Baker Inc.
 DRILLER: A. Brown

BAKER: J. DOLY
 BORING NO.: 651342 SHEET 2 C 2

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: _____
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 1/8" ID</u>		<u>325" TA R. 25" ID</u>		<u>10-12-92</u>	<u>0' - 2.5'</u>	<u>Good well</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>								
RUP									

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 ROCK	ELEVATION
		Samp. Rec.			Type No. (N = No Samp.)	RQD (Ft & %)					
1		<u>A.N.</u>									
2		<u>GRS FINE</u>	<u>N.A.</u>	<u>N.A.</u>							
3											
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: Harding Huber Inc
DRILLER: ...

BAKER REP.: ...
BORING NO.: 651343 SHEET 1 OF ...

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: _____
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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"</u>		<u>3.25" / 2.25"</u>		<u>10-12-92</u>	<u>0-2.5'</u>	<u>COOL, WET</u>		
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STL</u>		<u>H.S.A.</u>						
HAMMER WT.	<u>110#</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>2.0</u>				<u>Sand, medium to fine brown grained</u>		<u>dense</u>	<u>damp.</u>	
2		<u>S-1</u>	<u>2.0</u>	<u>N.A.</u>							
			<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.: Landmark Drilling, Inc.
DRILLER: C. Smith

BAKER REP.: _____
BORING NO.: 19133 SHEET 1 OF 1

D.7

Grid Ravine Area

FIELD TEST BORING RECORD

PROJECT: Lot 203, A
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

INVERT: _____
 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>1 3/8" 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~~ ^{Hand Auger} split spoon samples
Borehole grouted to surface. Note: Boring advanced with hand auger

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	ROCK	
1							<u>fine sand some silt</u>	<u>light gray buff</u>	<u>NA</u>	<u>damp</u>		
2							<u>fine sand, little silt</u>	<u>buff</u>	<u>↓</u>	<u>damp moist at 1.5' to 2.0'</u>		
3							<u>fine sand, little silt</u>	<u>buff</u>	<u>↓</u>	<u>wet Water at 2.0'</u>		
4							<u>End of boring at 2.5'</u>					
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Tubing, Inc.
 DRILLER: Clad Chism

BAKER REP.: D.J. Martin
 BORING NO.: Lavinia SBI SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 203, R
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

TOP OF PVC CASING: _____

RIG: <u>NA</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>9-10-92</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 ^{hand auger} 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
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (FL & %)	Pen. Rate	OVA (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1						6	<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.
 DRILLER: Chad Chism

BAKER REP.: D.J. Martin
 BORING NO.: Ravin Area SB-2 SHEET _____ OF _____

FIELD TEST BORING RECORD

PROJECT: Let 203, 1
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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.)					9-11-92	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 ROCK	Sample ID Type No. (N = No Samp.)	Samp. Rec. (Ft. & %)	SPT Blows Per 0.5'	Lab. Class.	O/A P/B (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK
				RQD (Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1						0	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. brn		color also orange in middle water at 5.5' wet	
6							End of boring at 6'				
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: _____

BAKER REP.: D.J. Martin
 BORING NO.: RAV 5B.3 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 203 R
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>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 = D100

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		OVA P/B (ppm)	Color	Hardness		
1						<u>Silt and fine sand trace gravel</u>	<u>lt. grey</u>		<u>dry</u>		
2						<u>fine sand and silt trace gravel sized sand nodules</u>	<u>lt. yellow brn.</u>		<u>damp</u>		
3						<u>DO.</u>					
4						<u>fine sand, little silt</u>	<u>lt. yellow brn. soft</u>				
5						<u>Silt, some sand little clay</u>	<u>lt. brn.</u>		<u>damp non plastic</u>		
6						<u>DO.</u>					
7							<u>lt. brn. uniform</u>		<u>moist</u>		
8							<u>cracking</u>				
9						<u>clay & silt, trace fine sand</u>	<u>grey-brn orange mottled</u>		<u>moist plastic</u>		
10						<u>End of Boring at 10'</u>					

DRILLING CO.: Hand Auger, Inc.
 DRILLER: _____

BAKER REP.: D.J. Martin
 BORING NO.: RAV SB4 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 2034
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>Z</u>	<u>Sunny 85°</u>		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to Z'
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	
		Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate						PID (ppm)
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.
DRILLER: _____

BAKER REP.: D.J. Martin
BORING NO.: RAV 589A SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203, R

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19633

COORDINATES: EAST: _____

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>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LENGTH									
TYPE									
HAMMER WT.									
FALL									
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.	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK
	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						0.7	Silt and fine sand fine sand, little silt	lt. gry. light grey		dry, trace organic rich material none	
2						0.5	silt and fine sand	orange brown		same moist	
3							End of boring at 3'				
4											
5											
6											
7											
8											
9											
10											

DRILLING CO.: ~~Hand Auger~~

BAKER REP.: DJ Martin

DRILLER: _____

BORING NO.: RAV 5B5

SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203, 1

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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	4'	85° sunny		
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.	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						0	Fine sand and silt, some peat FILL	brown gray		dry NOTE: As seen through battery at 1.15', battery cells retrieved in sample damp. NOTE: HNU reading 70ppm in auger hole		
2						0	silt and fine sand FILL					
3						1.0	Fine sand and silt	lt. brown				
4						0	fine sand, little silt	light orange brown		moist sample dk. brn at tip of auger		
5							End of boring at 4'					
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.

DRILLER: _____

BAKER REP.: D.J. Martin

BORING NO.: RAV SB.6

SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>4.0</u>	<u>85° sunny</u>		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 4.0'
Borehole grouted to surface DO = D1D0

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 ROCK	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						0	<u>fine sand and silt, trace gravel, little organic rich material</u>	<u>brn, grey</u>		<u>dry</u>		
2						0	<u>fine sand, little silt</u>	<u>lt. brn</u>		<u>damp</u>		
3						0	<u>DO.</u>					
4						0	<u>DO.</u>					
5						0	<u>DO.</u>					
6						0	<u>fine sand, little silt</u>	<u>lt. brn</u>		<u>damp</u>		
7							<u>End of boring at 4.0'</u>					
8												
9												
10												

DRILLING CO. Hardin Steel, Inc.
 DRILLER: _____

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

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 203
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>BS Sunny</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. (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	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		PID (ppm)	Color	Hardness		Weathering, Bedding, Fracturing, and Other Observations
1						fine sand and silt, little organic rich material	brn gry		damp		
2						fine sand little silt	lt. brn yellow brn		damp moist		
3						silt and fine sand, little clay	lt. brn & gry		moist	water at 3'	
4						End of Boring at 3'					
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.
DRILLER: _____

BAKER REP.: D.J. Martin
BORING NO.: RAV SRB

SHEET 1 OF _____

FIELD TEST BORING RECORD

PROJECT: Lot 203
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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>2.5</u>	<u>85° sunny</u>		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 2.5'
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	Weathering, Bedding, Fracturing, and Other Observations		
1							<u>fine sand and silt, some organic rich material</u>	<u>brn gry</u>		<u>damp moist</u>		
2							<u>fine sand, little silt</u>	<u>buff</u>		<u>moist</u>		
3							<u>End of Boring at 2.5'</u>			<u>wet water @ 2.5'</u>		
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Handy Huber, Inc.
 DRILLER: _____

BAKER REP.: D.J. Martin
 BORING NO.: RAV SB 9 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: 6-Rav

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

COORDINATES: EAST: _____

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	2.3'	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 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				.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 (at bottom)		
3												
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: ~~_____~~

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

DRILLER: _____

BORING NO.: 6-RAV SB#10 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: 6-RAV
S.O. NO.: 19633
COORDINATES: EAST:
ELEVATION: SURFACE:

CLEJ-01272-3.13-08/20/93

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.)					9-14-92	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 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
				RQD (FL & %)	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	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		gray to	Loose	Wet	
							END of Boring	yellow brown to yellow orange			
4											
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-RAV
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

TOP OF PVC CASING: _____

RIG: Hand auger								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	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.)			(Ft. & %)	RQD (Ft. & %)					Pen. Rate
1		S1				SAND fine grained w/trace silt	gray to brown	Loose	Damp		
							brown	Loose	Damp		
2		S2				END of Boring	brown to gray	Loose	Wet		
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-Ravi
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 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.)	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 4.6 17 to 81	END of Boring	dk. brown to yellow brown	Loose	Damp strong organic odor w/ trace of clay w/ has green appearance		
5												
6												
7												
8												
9												
10												

DRILLING CO.: ~~Hand Auger, Inc.~~
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-Raviv

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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.)					9-14-92	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. (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	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 S2				1.3 1.4	SILT w/ some sand	gray to light brown	Loose	Damp Root material / organic rich		
2							SAND fine grained w/ trace silt	gray to light brown	Loose	Wet		
3							END of Boring					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: ~~Harding~~ Baker, Inc.

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

DRILLER: _____

BORING NO.: 6-RAV SB#14 SHEET 1 OF 1

D.8
Grid 201N

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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		9-11-92	3'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WALL	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	Hum. PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
		S1				1.3	HUMUS material w/ some silt trace sand	black	Loose	Damp Root material	
1		A-N									
		S2	1.4	12			SAND fine grained w/ trace silt	dk brown to lite brown to brown	medium dense	Moist to wet (at bottom)	
2			20	12		1.3					
			70%	11							
3				13			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 N. SB# 1 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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		9-10-92	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.	HAW 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		51 H-W				1.5	SILT w/ some sand	gray to dk gray	Loose	Damp Plant & Root material		
2		52	1.2 20	4 5		1.2	SAND fine grained w/ coarse silts	Yellow brown to brown	medium dense to loose	Moist like gray lamination		
3			60%	6			fine sand grained		Loose			
4			1.4 2.0	2 3		1.2		like brown	Loose	Wet		
5			70%	6			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 201 N. SB#2 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201 N

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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		9-10-92	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	
				RQD (FL & %)	Pen. Rate						Hum. PID (ppm)
1		31 A-N				SILT w/ some sand	gray	Loose	Damp. Root & plant material		
2		32	1.0 2.0	6 6		SAND fine grained w/ trace silt	gray to dk. brown	medium dense	Moist		
3			50%	10							
4			1.5 2.0	4 7		SAND fine grained	dk. brown to light brown	medium dense	Moist (at bottom)		
5			75%	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

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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	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	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL
				Blows Per 0.5'	Pen. Rate	HMW PID (ppm)					
1		S1 A-N					SILT w/ some sand	Yellow brown	Loose	Damp Root material	
2		2	1.5 2.0	11 12 10			SHINY fine grained with trace silt	Yellow brown to light grey fine brown	Medium dense	Moist to wet (at bottom)	
3			75%	12			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 N. SB # 4 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19/35
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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	9'	sunny/warm		
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

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL	Sample ID	Samp. Rec.	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
	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		S1				1.8	SILT w/ some sand	light to brown	loose	dry - Root material		
2		A-N	1.7/2.0	5/10		1.3	fine grained silty clay	brown	medium dense	Moist		
3			85%	7/8								
4			1.4/2.0	4/4		1.3	fine grained silty clay	brown	loose	Moist		
5			70%	4/10								
6		CA	1.4/2.0	8/18		1.7		brown to light gray to brown	dense	Moist		
7			70%	22/24								
8			1.2/2.0	10/17		1.4		yellow brown to brown	dense	Moist like gray brown		
9			65%	12/20								
10							END of Boring					

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, JR
 BORING NO.: 19/35-58#5 SHEET 1 OF 1
Lot 201 N.

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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									

MARKS: 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
					Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HMU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	
1		S1					SILT w/ some sand	black	Loose	Damp Root material	
2		A-N					SAND, Silty sand w/ some silt	brown to light brown	medium dense	Moist to wet (at bottom)	
3			1.6	3							
			20	6							
			80%	14							
3							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 201N SB# 6 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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								
WALL	30"								
TICK 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.	K _u 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 (FL & %)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness		
1		S1 A-N					SILT w/ some sand and humus material	gray to dk brown	loose	Damp Root material		
2		S2	1.6 / 2.0	5			SAND fine grained w/ trace silt	dk brown to brown to light brown	medium dense	Moist		
3			80%	8								
4			1.4 / 2.0	20		1.4	SAND fine grained	lt. brown	medium dense	Moist		
5			70%	21			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 W SB#7 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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	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.	Hum 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		S1 A-N				1.1	SILT w/ some sand	dk gray	Loose	Damp Root material		
2			1.6 2.0	5 6		1.1	SAND fine grained w/ trace silt	dk brown to brown	medium dense	Moist		
3			80%	10								
4			1.7 2.0	2 5		1.1	SAND fine grained	brown	medium dense	Moist		W 2
5			85%	9			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# 8 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

COORDINATES: EAST: _____

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		9/11/92	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 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 A-N			HUMUS material w/trace silt	Dk brown	Loose	Damp Root & Plant material			
2		S2	.4 20		SAND fine grained w/trace silt & Humus material	dk brown to brown to light brown	Loose	Moist			
3			20%								
4			.12 20		SAND fine grained	brown to light brown	medium dense	Wet		4	
5			60%								
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 201A SB# 9 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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	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.	HRU 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				1.1	SILT w/ some sand	grey	Loose	Damp Root & Plant material		
2			1/6 2.0	3 4		1.5	SAND fine grained w/ trace silt	yellow brown to brown	Loose	Moist		
3			80%	6								
4		S2	1/5 2.0	2 4		1.3	SAND fine grained	light brown to yellow brown	Loose	Moist		
5			75%	4								
6			1/5 2.0	2 6		1.2		light brown	medium dense	Moist		
7			75%	8								
8							END of Boring					
9												
10												

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.
 BORING NO.: Lot 201 N 5B#10 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: _____
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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'-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 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	ELEVATION
				Blows Per 0.5'	Pen. Rate						
1		S-1 A.N.	N/A	N/A		Sand, medium grained, little silt	brown	loose	damp		
2		S-2	1.9 2.0	3 4		Sand, medium grained, little silt	grey	loose	damp		
3			95%	5							
4		S-3	1.8 2.0	3 3		Sand, medium to fine grained, little silt	brown	loose	damp		
5			90%	5							
6		S-4	1.8 2.0	3 4		Sand medium to fine grained, little silt	brown	loose	damp		
7			90%	7							
8		S-5	1.9 2.0	4 5							
9			80%	7							
10		S-6	1.7 2.0	11 13		Sand, medium to fine grained, little silt	grey	medium dense	damp		

DRILLING CO.: _____
 DRILLER: C. [Signature]

BAKER REP.: [Signature]
 BORING NO.: 65B SHEET 1 OF 1



PROJECT: _____
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

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			2.0	7			Sand, medium grained	Grey	medium dense	damp		
2		S-7	2.0	14			with silt					
3			100%	11			Sand, medium grained	Grey	dense	moist		
4		S-8	2.0	14			with silt					
5			100%	21			Sand, medium grained					
6		S-9	2.0	13			with silt	Green	dense	Wet, gross water at 16.5 feet.		
7			100%	15								17.0
7				18			END OF BORING AT 17.0 FEET					
8				23								
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												

DRILLING CO.: Hardin Huber Inc.
DRILLER: C. CHISM

BAKER: J. Doe
BORING NO.: 19133 SHEET C 2

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: _____
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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	7'		3.25" ID S. 2.5" ID		10-13-92	0'-7'	Clear, Cool		
TYPE	S. 11		U.S.P.						
HAMMER WT.	100#								
STICK UP	30								

REMARKS: _____

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		S-1	1.9	1		SAND, med. coarse, U.F.L. S101	Green	med. dense	dry		
2			2.0	2		Sand, med. coarse, U.F.L. S101	green	medium dense	dry		
3			2.0	3		Sand, med. coarse, U.F.L. S101	Green	loose	moist		
4	S-3		2.0	4		Sand, med. coarse, U.F.L. S101	Green	loose	moist		
5			1.0	5		Sand, med. coarse, U.F.L. S101	Green	med. dense	Wet, groundwater at 5.0'		
6	S-11		2.0	6							
7			2.0	7							
8											
9											
10											

DRILLING CO.: Yardley, Inc.
 DRILLER: J. Brown

BAKER REP.: J. [Signature]
 BORING NO.: 19133 SHEET 1 OF 1

CLEJ-01272-3.13-08/20/93

D.9
Grid 201E

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/93

COORDINATES: EAST: _____

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.	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 (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		A-N	1.3	3		1.3	SILT w/ some sand	Dk. gray	Loose	Damp Root/Plant material		
2			2.0	4		1.2	SAND fine grained w/ trace silt	lt. gray to dk. brown	medium dense	Moist		
3			65%	8			SAND fine grained	dk. brown	medium dense	Wet		
4			1.6	2		1.2						
5			2.0	5								
6			80%	6								
7				10			END of Boring					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr
 BORING NO.: Lot 201 E SB# 1 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

COORDINATES: EAST: _____

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	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.	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 (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				1.4	SILT w/ some sand	gray	Loose	Damp Root (plant material)		
2		R-N	1.7 / 20	3		1.3	GRAVY fine grained w/ trace silt	dk brown to brown to lite brown	medium dense	Moist to wet (at bottom)		
3			85%	5			END of Boring					
4				6								
5				7								
6				8								
7				9								
8				10								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

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

BORING NO.: Lot 201 E SB# 2 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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	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 (Ft. & %)	Pen. Rate	Max. PID (ppm)						
1		S1				21	SILT w/ some sand	dk. gray	Loose	Damp Root/Plant material		
2		A-N					SAND fine grained w/ trace silt	dk. brown to brown to light brown	medium dense	Moist to wet (at bottom)		
3		S2	1.7 2.0	3 5 6 8		1.2						
4			85%				END of Boring					
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

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

BORING NO.: Lot 20 IE SB# 3 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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	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	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate	HAM 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		A-N	18 2.0	5 8 14 10		1.7	SAND fine grained w/ trace silt	gray to brown to DK. brown	medium dense	Moist to Wet (at bottom)	
3			90%				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 201E SB#4 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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		9/11/92	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.	Hum. 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				.9	SILT w/ some sand	OK. Gray	Loose	Damp Root/plant material		
2		S2	1.3 2.0	8 12		1.0	SAND fine grained w/ trace silt	OK. brown to brown	medium dense	Moist		
3			65%	12								
4			1.3 2.0	6 10 14		1.0	SAND fine grained	brown to light brown	medium dense	Wet		W 2 4
5			65%	22			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# 5 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 20
 S.O. NO.: 19633
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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		9-12-92	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	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 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		S1				1.5	SILT w/ some sand	gray to dk. gray	Loose	Damp Root/plant material	
2		A-N	1.3 / 2.0	8		1.8	SAND fine grained w/ trace silt	brown to dk. brown	medium dense	Moist	
3			65%	19							
4		S3	1.5 / 2.0	6		1.5	SAND fine grained	dk. brown to brown	medium dense	Moist	
5			75%	11							
6			1.3 / 2.0	4		1.3		lt. brown	medium dense	Wet	
7			65%	14			END of Boring				
8											
9											
10											

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

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-12-92</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.	HNW 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>1.3</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>10</u> <u>2.0</u>	<u>10</u> <u>5</u> <u>8</u>		<u>1.3</u>	<u>SAND fine grained w/ trace silt</u>	<u>brown</u>	<u>medium dense</u>	<u>Moist to wet (at bottom)</u>		
3			<u>50%</u>				<u>END of Boring</u>					
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# 7 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19193

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

RIG: # <u>19</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>9-12-92</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>								
ALL	<u>30"</u>								
TICK UP									

MARKS: 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.	HNUA 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		
		<u>S1</u>				<u>1.3</u>	<u>SILT w/some sand</u>	<u>gray to brown</u>	<u>Loose</u>	<u>Damp Root/plant material</u>		
<u>1</u>		<u>A-N</u>										
<u>2</u>		<u>S2</u>	<u>1.6 / 2.0</u>	<u>4</u>		<u>1.3</u>	<u>SAND fine grained</u> <u>ultrace silt</u>	<u>light brown</u>	<u>medium dense</u>	<u>Damp to Moist</u>		
<u>3</u>			<u>80%</u>	<u>14</u>								
<u>4</u>			<u>1.4 / 2.0</u>	<u>4</u>		<u>1.2</u>	<u>SAND fine grained</u>	<u>light brown</u>	<u>medium dense</u>	<u>Wet</u>		
<u>5</u>			<u>70%</u>	<u>20</u>			<u>END of Boring</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#8 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

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 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	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	HAU PID (ppm)	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 dk. gray	Loose	Damp	
2		S2	1.7 2.0	10 12		1.4	SAND fine grained w/ trace silt	gray to brown to lite brown	medium dense	Moist	
3			85%	14							
4			1.6 2.0	3 10		1.3	SAND fine grained	lite brown	medium dense	Moist to wet (at bottom)	
5			80%	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 E SB# 9 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19633

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								
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	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
				Blows Per 0.5'			Pen. Rate					
1		S1 A-N				1.3	SILT w/ some sand	gray	Loose	Damp Root/plant material		
2			3 20	5 6 8 9		2.8	SAND fine grained w/ trace silt	gray to lite gray	medium dense	Damp		
3			15%									
4			1.2 20	4 7 9 8		1.5	SAND fine grained	brown	medium dense	Moist to Wet		
5			60%				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 201 E SB#10 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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	Sample ID	Samp. Rec.	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.)	(Ft. & %)	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	Loose	Damp Root/Plant material	
2			.8 20	9 16 18		1.3	SAND fine grained w/ trace silt	light brown	dense	Moist	
3			40%	21							
4			1.4 2.0	9 10 12		1.3	SAND fine grained	brown	medium dense	Wet	
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



FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NURIN: _____
 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		9-13-92	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.	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	HNu 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 gravel occasional	
1		A-N									
2		S2	1.3 / 2.0	11 / 13 / 10 / 9		1.6	SAND fine grained w/ trace silt	Gray to dk gray	medium dense	Moist	
3			65%								
4			1.9 / 2.0	2 / 4 / 5 / 7		1.7	SAND fine grained	Brown	medium dense to loose	Wet	
5			95%				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 #12 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NO. _____
 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 5/8" ID		3 1/4" ID		9-13-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ALL	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	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
1		S1 A-N	1.6		SILT w/ some sand	gray	Loose	Damp Root/plant material			
2			2.0		SAND fine grained w/ trace silt	gray to brown to lite brown	Loose	Moist			
3			80%								
4		S3	1.4		SANDS fine grained	yellow brown to lite gray	medium dense	Moist to Wet (at bottom)	4		
5			2.0								
6			10								
7			12		END of Boring						
8											
9											
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

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

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 ROCK	Sample ID Type- No. (N = No Samp.	SPT Blows Per 0.5' RQD (Ft & %)	Lab. Class.		Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL ROCK	ELEVATION
				Pen. Rate	HNU PID (ppm)						
		31 A-N				2.0	SILT w/ some sand	gray	Loose	Damp Root/Plant material	
1			.8 2.0	3 4 6 7		2.2	SAND fine grained ultrafine silt	gray to yellow brown to dk gray	medium dense	Moist	
2			40%								
3		33	1.3 2.0	3 6 7 12		1.8	SAND fine grained	lt brown	medium dense	Moist to wet (at bottom)	
4											
5			65%				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

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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	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. (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	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		HWA PID (ppm)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		S1 A-N				SILT w/ some sand	gray	Loose	Damp Root/Plant material		
2		S2	1.4 2.0	2 4 6 7		SAWD fine grained w/ trace silt	brown	medium dense	Moist to Wet (at bottom)		
3			70%			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 20 E SB#15 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

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 9/8" ID</u>		<u>3 1/4" ID</u>		<u>9-13-92</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>								
ALL	<u>30"</u>								
TICK 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		
	ROCK	Type No. (N = No Samp.)		RQD (Ft. & %)						Pen. Rate	HNW PID (ppm)
1		<u>S1</u>			<u>2.1</u>	<u>SILT w/ some sand</u>	<u>brown</u>	<u>Loose</u>	<u>Damp Root/plant material</u>		
2		<u>A-N</u>	<u>1.5</u> <u>20</u>	<u>14</u> <u>13</u> <u>10</u>	<u>1.5</u>	<u>SAND fine grained w/ trace silt</u>	<u>lt</u> <u>brown</u>	<u>medium</u> <u>dense</u>	<u>Moist orange/yellow</u> <u>Laminations</u>		
3			<u>75%</u>	<u>7</u>							
4		<u>S3</u>	<u>1.7</u> <u>20</u>	<u>5</u> <u>13</u> <u>12</u>	<u>1.5</u>	<u>SAND fine grained</u>	<u>dk</u> <u>brown</u> <u>to</u> <u>lt</u> <u>brown</u>	<u>medium</u> <u>dense</u>	<u>Moist orange/yellow</u> <u>to</u> <u>Wet</u> <u>(at bottom)</u> <u>Laminations</u>		
5			<u>85%</u>	<u>10</u>		<u>END of Boring</u>					
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr

BORING NO.: Lot 201 E SR#16 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 3/8" ID		3 1/4" ID		9-13-92	5'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WELL	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.	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	.9	2		1.7	SILT w/ some sand	gray to brown	Loose	Damp Root/plant material		
2			2.0	4		1.4	SAND fine grained w/ trace silt	lite brown to brown to lite brown	medium dense	Moist		
3			45%	5								
4		S3	1.4	6		1.5	SAND fine grained	lite brown	medium dense	Moist to wet (at bottom)		
5			70%	6			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#17 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/53

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		9-13-92	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	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		S1 A-N				1.6	SILT w/ some sand	gray to brown	Loose	Damp Root/Plant material		
2		S2	1.2 2.0	5 6 6		1.6	SAND fine grained w/ trace silt	brown to light brown	medium dense	Moist to wet (at bottom)		
3			60%	8			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 20 E SB#18 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NUM IN: _____
 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 5/8" ID		3/4" ID						
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	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 (FL & %)					Pen. Rate
1		S1			0	Coarse to fine sand, some silt trace coarse to fine gravel	gray brown		damp		
2		S2	1.5 2.0	5 4	0	fine sand, little silt	buff	loose	damp		
3			75%	5			black brown to brown				
4		S3	1.67 2.0	4 5	0	DO.		medium dense	damp - 2.5" area of organic rich material influencing the sample at four inches from top of spoon.		
5			84%	6					wetter at 5.5'		
6		S4	1.5 2.0	6 7	0	fine sand, some silt	brown	medium dense	wet		
7			75%	6			buff to brown				
8						End of boring at 7'					
9											
10											

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: C. Chism

BAKER REP.: DJ Martin
 BORING NO.: Lot 201 East Ave SB19 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201 E
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 3/8" 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						
1		<u>S1</u> <u>A-N</u>	<u>1.67</u> <u>2.0</u>	<u>5</u> <u>5</u> <u>4</u> <u>5</u>		<u>1.0</u> <u>Silt and fine sand, little organic rich matter</u>	<u>DK. grey brown</u>		<u>dry</u>		
2		<u>S2</u>	<u>84%</u>	<u>5</u> <u>4</u> <u>5</u>		<u>0</u> <u>Silt and fine sand</u>	<u>Dark brown to brown</u>	<u>medium stiff</u>	<u>dry</u>		
3		<u>S3</u>	<u>1.67</u> <u>2.0</u>	<u>5</u> <u>4</u> <u>2</u> <u>3</u>		<u>0</u> <u>fine sand some silt</u>	<u>light to buff</u>	<u>loose</u>	<u>damp</u>		
4		<u>S4</u>	<u>1.33</u> <u>2.0</u>	<u>5</u> <u>4</u> <u>4</u> <u>3</u>		<u>0.6</u>			<u>moist</u>		
5			<u>67%</u>	<u>3</u>					<u>water at 6'</u>		
6						<u>End of Boring at 7'</u>					
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: C. Chism

BAKER REP.: D. J. Martin
 BORING NO.: Lot 201 East 58 20 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 201
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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	3	83° Sunny	/	/
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	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N				0	fine sand, some silt, trace medium sand, little organic rich matter	dk. gray brown		moist		
2		S2	1.58 2.0	6 8 9 10		0	fine sand, little silt	lt. gray	medium dense	wet		
3			79%				End of Boring at 3'					
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: C. Chism

BAKER REP.: A J Martin
 BORING NO.: Lot 201 East 513 21 SHEET 1 OF 1

CLEJ-01272-3.13-08/20/93

D.10
Grid 201S

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

COORDINATES: EAST: _____

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'	Sunny/mild		
LENGTH									
TYPE									
HAMMER WT.									
FALL									
STICK UP									

REMARKS: Advanced boring to 2' with hand auger
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 (Ft. & %)	Pen. Rate	HMU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		S1			.6	SILT w/ little sand	lite brown	Loose	Dry Root material & gravel		
					.7	SAND fine grained	lite brown	Loose	Damp		
					.7		lite brown	Loose	Moist		
2		S2			.9		lite brown	Loose	Wet		
3											
4											
5											
6											
7											
8											
9											

Wa
1 1/2
2

DRILLING CO.: ~~Hamilton~~
 DRILLER: _____

BAKER REP.: J.E. Zimmerman, JR.
 BORING NO.: Lot 201 S SB#1 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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		9-15-92	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 (FL & %)	Pen. Rate	HNU PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	
1		S1				1.0	HUMUS material w/ little silt	dk. brown	Loose	Damp organic material / Root material	
2		R-N	1/6	2						* unable to take sample due to saturation	
3			2.0	6		1.0				Wet	
4			80%	8			END of Boring				
5				9							
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 201
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 3/8" 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	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	
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		ROCK
1		51 A-N	1.3 5		.9	Humus material w/ little silt	dk. brown	Loose	Dry Root material organic material		
2			2.0 6		1.0	SAND fine grained w/ trace silt	brown to gray	medium dense	Moist		
3			65% 8								
4		53	1.6 8		.9	SAND fine grained	lite brown	medium dense	Wet		
5			80% 14			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 SB#3 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 21

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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		9-15-92	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
	ROCK	Type No. (N = No Samp.)	(Ft. & %)	RQD (Ft. & %)	Pen. Rate					
1		A-N				.9 SILT w/ little sand	dk gray	Loose	Dry Root/plant material	
2			1.5 2.0	5 4		SAND fine grained w/ trace silt	dk. gray	medium dense	Moist	
3			75%	6	1.0					
4			1.2 2.0	7						
5			60%	1		1.1	lite gray	Loose	wet	
6				2						
7				2						
8				1						
9										
10										
						END of Boring				

DRILLING CO.: Hardin Huber, Inc.
DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr
BORING NO.: Lot 2015 SB#4 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 2c
S.O. NO.: 19/33
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 7/8" 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 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
	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	ROCK
1		A-N				1.5	SILT w/ some sand	dk. brown	Loose	Damp Root material	
2			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)	
3			90%	7			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 S SB# 5 SHEET 1 OF _____

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>9-14-92</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	Sample ID	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
	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>1.3</u>	<u>SILT w/ some sand</u>	<u>dk. brown</u>	<u>Loose</u>	<u>Damp Root material</u>		
2		<u>A-N</u>	<u>1.9</u>	<u>2</u>		<u>1.2</u>	<u>SAND fine grained w/ trace silt</u>	<u>dk brown to brown</u>	<u>Loose</u>	<u>Moist</u>		
3		<u>S2</u>	<u>20</u>	<u>2</u>								
4			<u>95%</u>	<u>5</u>			<u>SAND fine grained</u>	<u>light brown</u>	<u>Loose</u>	<u>Wet</u>		
5			<u>1.3</u>	<u>2</u>		<u>1.1</u>						
6			<u>65%</u>	<u>4</u>			<u>END of Boring</u>					
7				<u>4</u>								
8				<u>4</u>								
9				<u>4</u>								
10				<u>4</u>								

DRILLING CO.: Hardin Huber, Inc.
DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.
BORING NO.: Lot 2015 SB#6 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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		9-14-92	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.	HNu 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							standing water					
2		≤ 1	1.5 / 2.0			1.2	SAND fine grained w/trace silt	brown to gray	Loose	Moist to wet	Sample 90% saturated	
3			75%				END of Boring					
4										* Sample collected from spoon w/o augering		
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr
 BORING NO.: Lot 201.5 SB# 7 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

RIG: <u>-WA-</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)					9-15-92	6"	Sunny/mild		
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	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	Mu PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				9	HUMUS material w/ trace silt	dk. brown to black	Loose	Moist to wet organic rich material		
2							END of Boring			Standing water near location of boring		
3												
4												
5												
6												
7												
8												
9												
10												

DRILLING CO.: Hacker Hobbies, Inc.

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

DRILLER: _____

BORING NO.: Lot 201 SB# 8 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 20

S.O. NO.: 19133

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		9-13-92	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	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		HNW PID (ppm)	Color	Hardness	
1		S1 A-N				SILT w/ some sand	gray to brown	Loose	Damp Root/plant material	
2		S2	1.4 2.0	3 3		SAND fine grained w/ trace silt	brown to lite brown	Loose	Moist orange striations (bottom)	
3			70%	5 8						
4			1.2 2.0	2 6		SAND fine grained	brown to lite brown to lite gray	medium dense	wet	
5			60%	6 10	1.3					
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 20 5 SB# 9 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 20

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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		9-13-92	6"	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
FALL	30"								
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. (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	Type No. (N = No Samp.)		RQD (Ft. & %)	Pen. Rate		HMV PID (ppm)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
1		S1				1.4 SAND fine grained	brown	Loose	Wet		
2						END of Boring					
3						* No blows.					
4						* Sample was from 6" cuttings					
5											
6											
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J.E. Zimmerman Jr

DRILLER: T. CRAMER

BORING NO.: Lot 20 15 SB# 10 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Lot 201

S.O. NO.: 19133

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		9-13-92	5'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ALL	30"								
LICK 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	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				1.5	SILT w/ some sand	gray	Loose	Damp Root/Plant material trace gravel	
2		A-N	1.4	8			SAND fine grained w/ trace silt	light gray to brown to yellow brown	medium dense	Moist	
3		S2	20	11		1.5					
4			70%	11			SAND fine grained	yellow brown	Loose	Moist to wet (at bottom) orange striations	
5			1.5	3		1.6					
6			20	5							
7			75%	4			END of Boring				
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr

BORING NO.: Lot 201 5 SB# 11 SHEET 1 OF

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Lot 201

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

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		9-13-92	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										
	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	ROCK	
1		S1																	
		A-N																	
2			1.1																
			2.0																
3			55%																
			1.2																
4		S3	2.0																
			20																
			20																
5			60%																
			25																
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#12 SHEET 1 OF 1

D.11
Site 9

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9, Fir

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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 5/8" ID		3/4" 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 = D1D0

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		S1				0	fine sand, little silt trace fine gravel	gry brn		damp	
2		S2	1.17 2.0	6 3 2		0	fine sand little silt	lt. brn	loose	damp	
3			59%								
4		S3	1.33 2.0	2 3 3		0	fine sand, some silt	lt. brn to buff	loose	damp	
5			67%								
6		S4	1.33 2.0	4 3 3		0	fine sand, little silt	buff	loose		
7			67%							moist	
8		S5	1.67 2.0	3 5 9		1	fine sand, some silt	lt. brn		wet	
9			84%								
10							End of boring at 9'				

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: D.J. Martin

DRILLER: C. Chism

BORING NO.: FTA SB-1

SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9, Fire

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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	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	PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1				0	fine sand, little silt	brown		damp		
2		S2	1.17 / 2.0	4		0	fine sand, little silt	light brn	loose	damp		
3			54%	3			fine sand some silt					
4		S3	1.67 / 2.0	4		0	fine sand and silt	brown	loose	damp		
5			84%	4								
6		S4	1.67 / 2.0	4		0	fine sand and silt	light brown	loose	moist water at 6.25' wet		
7			84%	7			End of boring at 7'					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: C. Chism

BAKER REP.: D.J. Martin
 BORING NO.: FTA SB-2 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 Fir
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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	03, sunny	/	/
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.	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 & %)
1		S1	/		6	fine sand and silt, trace organic rich material	black brown	damp,	pine/chemical odor		
2		S2	15 20	4446	6	fine sand little silt	buff	damp,	pine/chemical odor		
3			75%	4444							
4		S3	1133 20	4333	6			damp, pine/chemical odor			
5			67%	4333					pine/chemical odor		
6		S4	1167 20	4333	1	fine sand little silt	buff	moist water at 6.25			
7			89%	4333							
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: C. Chism

BAKER REP.: D. J. Martin
 BORING NO.: FTA-SB-3 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 Fir.
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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>9-16-92</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.		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, 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>6</u>								
4		<u>S3</u>	<u>1.67</u>	<u>4</u>		<u>0</u>	<u>DO.</u>		<u>loose</u>	<u>damp</u>		
5			<u>2.0</u>	<u>3</u>								
6		<u>S4</u>	<u>1.5</u>	<u>4</u>		<u>0</u>	<u>DO.</u>			<u>damp</u>		
7			<u>2.0</u>	<u>4</u>								
8		<u>S5</u>	<u>75%</u>	<u>4</u>			<u>fine sand, little silt</u>	<u>brown</u>	<u>loose</u>	<u>moist water @ 7.75'</u>		
9			<u>1.5</u>	<u>2</u>			<u>fine sand and silt</u>					
10			<u>2.0</u>	<u>5</u>			<u>fine sand, little silt</u>	<u>gray</u>	<u>medium dense</u>	<u>wet</u>		
			<u>75%</u>	<u>0</u>			<u>End of Boring at 9'</u>					

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: _____

BAKER REP.: D. J. Martin
 BORING NO.: SB-9 (AST) SHEET 1 OF 2

FIELD TEST BORING RECORD

PROJECT: Site 9, Fir

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>9-16-92</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 1' 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. & %)
1		<u>S1</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>8</u> <u>10</u> <u>7</u> <u>6</u>	<u>fine sand, little silt</u> <u>fine sand some organic silt</u> <u>fine sand, little silt</u>	<u>brown</u> <u>brn/gy</u> <u>brown</u>	<u>medium</u> <u>dense</u>	<u>damp</u>			
3											
4		<u>S3</u>	<u>1.67</u> <u>2.0</u>	<u>3</u> <u>5</u> <u>2</u> <u>2</u>			<u>loose</u>	<u>damp</u>			
5											
6		<u>S4</u>	<u>1.67</u> <u>2.0</u>	<u>3</u> <u>2</u> <u>2</u> <u>2</u>	<u>fine sand and silt</u>	<u>orange brown mottled</u>	<u>loose</u>	<u>damp</u> <u>moist</u>			
7											
8		<u>S5</u>	<u>1.33</u> <u>2.0</u>	<u>2</u> <u>5</u> <u>5</u> <u>7</u>	<u>fine sand, little silt</u>	<u>brown with orange mottling</u>	<u>loose</u>	<u>moist</u> <u>wet</u>	<u>water @ 7.75'</u>		
9											
10					<u>End of Boring at 9'</u>						

DRILLING CO.: Hardin Huber, Inc.

DRILLER: C. Chism

BAKER REP.: D. J. Martin

BORING NO.: SB-5 (AST) SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 E

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19153

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

RIG: <u>ATV-Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	TOP OF CASING DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	<u>1 7/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</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 = D100

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)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>S1</u> <u>A-W</u>	<u>1.83</u> <u>2.0</u>	<u>7</u> <u>5</u>		<u>0</u>	<u>fine gravel, trace fine sand</u>	<u>gray</u>		<u>dry</u>		
2		<u>S2</u>	<u>2.0</u>	<u>6</u> <u>4</u>		<u>0</u>	<u>fine sand, some silt</u> <u>fine sand, little silt</u>	<u>blk- lt. gray to brown</u>	<u>medium dense</u>	<u>dry</u> <u>damp</u>		
3		<u>S3</u>	<u>1.58</u> <u>2.0</u>	<u>4</u> <u>4</u> <u>3</u> <u>4</u>		<u>0</u>	<u>Do.</u>	<u>lt. brn to tan</u>	<u>loose</u>	<u>damp</u>		
4		<u>S4</u>	<u>1.17</u> <u>2.0</u>	<u>5</u> <u>4</u> <u>4</u> <u>5</u>		<u>0</u>	<u>Do.</u>	<u>tan to buff</u>	<u>loose</u>	<u>damp</u>		
5		<u>S5</u>	<u>1.5</u> <u>2.0</u>	<u>6</u> <u>9</u> <u>11</u>		<u>0</u>	<u>fine sand and silt</u>	<u>brown</u>	<u>medium dense</u>	<u>moist</u> <u>wet</u>		
6			<u>75%</u>							<u>Water @ 7.75'</u>		
7							<u>End of Boring</u> <u>at 9'</u>					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.

DRILLER: C. Chism

BAKER REP.: D. J. Martin

BORING NO.: SB6 (AST) SHEET 1 OF 1



FIELD TEST BORING RECORD

PROJECT: Site 9, Fir CLEJ-01272-3.13-08/20/93
 S.O. NO.: 19/33
 COORDINATES: EAST: _____ NORTH: _____
 ELEVATION: SURFACE: _____ TOP OF PVC CASING: _____

RIG: <u>Mobile 8-53</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>9-16-92</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 = D1DD0

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL / ROCK	Sample ID / Type No. (N = No Samp.)	SPT Blows Per 0.5' / RQD (FL & %)	Lab. Class. / Pen. Rate	PID (ppm)	Classification (Grain Size, Principal Constituents, Etc.)	Color	Consist. or Density	Moisture Content, Organic Content, Plasticity, and Other Observations	SOIL / ROCK	ELEVATION
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 / 2.0</u>	<u>5 / 4 / 4</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 / 2.0</u>	<u>5 / 4 / 3</u>	<u>0</u>			<u>loose</u>			
5						<u>fine sand, little silt</u>	<u>buff</u>		<u>moist</u>		
6		<u>S4</u>	<u>1.67 / 2.0</u>	<u>2 / 4 / 6 / 8</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. BAKER REP.: D. S. Martin
 DRILLER: C. Chism BORING NO.: SB7 (AST) SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Sit 9 F
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
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 3/8" 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 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		S1 A-N			fine sand, little silt	grn brn		dry			
2		S2	1.83 2.0	5 6	fine sand, little silt fine sand and silt fine sand little silt	lt. grn. brn. lt. grn.	medium dense	damp			
3			92%	3		buff		damp			
4		S3	1.67 2.0	3 3			loose				
5			84%	2		buff		moist		Water at 5.5'	
6		S4	2.0 2.0	4 3	fine sand, little silt	buff to lt. brn	loose	wet			
7			100%	4 5							
8					End of boring at 7'						
9											
10											

DRILLING CO.: Hardin Huber, Inc.
DRILLER: C. Chism

BAKER REP.: DJ Martin
BORING NO.: FSA SB B SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9, Fir

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>9-16-92</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 = D1 DDO

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-11</u>				<u>fine sand, little silt</u>			<u>damp</u>		
2		<u>S2</u>		<u>3</u> <u>2</u> <u>4</u> <u>3</u>	<u>0</u>	<u>fine sand, some silt, trace clay in coarse to fine gravel sized particulates</u> <u>FILL</u>	<u>brown black gray mottled</u>	<u>loose</u>	<u>damp, color varies indifferentially</u>		
3											
4		<u>S3</u>		<u>9</u> <u>8</u> <u>8</u> <u>3</u>	<u>0</u>	<u>DO, FILL</u>		<u>medium dense</u>	<u>damp</u>		
5											
6		<u>S4</u>		<u>1</u> <u>1</u> <u>1 1/2"</u>	<u>0</u>	<u>DO, FILL</u>		<u>very loose</u>	<u>moist</u> <u>wet</u>		
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.

DRILLER: C. C. Chism

BAKER REP.: D. J. Martin

BORING NO.: SB-9 (AST) SHEET 1 OF 1



FIELD TEST BORING RECORD

PROJECT: Site 9, Fir
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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>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 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)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	
1		<u>S1</u> <u>A-N</u>				<u>fine sand, little silt</u>	<u>light brown</u>		<u>damp</u>	
2		<u>S2</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 8 inches from tip</u>	
3				<u>4</u>		<u>Do. Fill</u>		<u>medium</u>	<u>damp</u>	
4		<u>S3</u>		<u>4</u>			<u>lt. brn w/ black mottling</u>			
5				<u>3</u>		<u>silt and fine sand, brown</u>				
6		<u>S4</u>		<u>3</u>		<u>fine sand & little silt, tan</u>			<u>damp</u>	
7				<u>3</u>		<u>fine sand, little silt</u>				
8		<u>S5</u>		<u>4</u>		<u>Fill</u> <u>sand, little silt</u>	<u>tan to buff</u>			
9				<u>9</u>						
10						<u>End of Boring at 9'</u>				

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: P. 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, Fil

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>9-16-92</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	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)	Color	Hardness		
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>2.0</u>	<u>6</u> <u>7</u> <u>5</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>0.3</u>						
4		<u>S3</u>	<u>1.33</u> <u>2.0</u>	<u>4</u> <u>4</u> <u>4</u>		<u>Do.</u>	<u>Tan</u>	<u>loose</u>	<u>damp</u>		
5											
6		<u>S4</u>	<u>1.75</u> <u>2.0</u>	<u>4</u> <u>5</u> <u>5</u> <u>6</u>		<u>fine sand, little silt</u>	<u>light gray</u>	<u>loose</u>	<u>moist</u> <u>wet</u>	<u>water at 6.0'</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-11 (AST) SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Site 9 Fir

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>3/4" ID</u>		<u>9-15-92</u>	<u>7'</u>	<u>B3 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 ' 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
1		<u>S1</u>				<u>fine sand, little silt, trace fine gravel</u>	<u>orawn</u>		<u>damp</u>		
2		<u>S2</u>	<u>1.58 / 2.0</u>	<u>2 / 7 / 4 / 4</u>		<u>Do. except no gravel fine sand and silt</u>	<u>lt. brn buff</u>	<u>medium dense</u>			
3			<u>79%</u>								
4		<u>S3</u>	<u>1.33 / 2.0</u>	<u>3 / 3 / 3 / 5</u>		<u>fine sand little silt</u>	<u>buff</u>	<u>loose</u>	<u>damp</u>		
5			<u>67%</u>								
6		<u>S4</u>	<u>1.5 / 2.0</u>	<u>3 / 5 / 7 / 8</u>		<u>fine sand little silt</u>	<u>lt. brn</u>	<u>medium dense</u>	<u>damp water at lens'</u>		
7			<u>75%</u>						<u>wet</u>		
8						<u>End of boring at 7'</u>					
9											
10											

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: _____

BAKER REP.: D.J. Martin
 BORING NO.: ETA 12 SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Site 9, Fin

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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>9-16-92</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	SPT Blows Per 0.5'	Lab. Class.	Classification		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>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>gry</u> <u>mottled</u> <u>color</u>		<u>damp, chemical odor</u> <u>note, trace coarse sand to</u> <u>fine gravel sized black</u> <u>hard pan - particulates</u> <u>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>chemical odor</u>	
4		<u>S4</u>	<u>75%</u>	<u>4</u> <u>3</u> <u>3</u> <u>5</u>			<u>0</u>	<u>DO</u> <u>FILL</u> <u>fine sand, little silt</u>	<u>brn with</u> <u>black</u> <u>staining</u>		<u>moist</u> <u>chemical odor</u> <u>Water at 6.25'</u> <u>wet</u>	
5												
6												
7												
8								<u>End of Boring at</u> <u>7'</u>				
9												
10												

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: Dw Martin

DRILLER: C. Chism

BORING NO.: SB 13 (AST) SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9, Ft.
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
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>9-16-92</u>	<u>7</u>	<u>Overcast 85°</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' 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		<u>S1</u>				<u>0</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>0</u>	<u>fine sand, little silt</u>	<u>dk gray to 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>0</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>3</u> <u>3</u> <u>4</u> <u>5</u>		<u>0</u>	<u>fine sand, little silt</u>	<u>lt. brn to buff</u>	<u>loose</u>	<u>moist</u>	<u>no chemical odor</u>	
7			<u>100%</u>							<u>wet</u>		
8							<u>End of Boring at 7'</u>					
9												
10												

DRILLING CO.: Hardin Huber, Inc.
DRILLER: P. Chism

BAKER REP.: D. J. Martin
BORING NO.: SB14 (AST) SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 Firs
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NUM. FT. _____
 TOP OF PVC CASING: _____

2

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>9-16-92</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.	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>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>2.0</u>	<u>9</u> <u>11</u> <u>6</u> <u>5</u>		<u>0</u>	<u>fine sand, some silt</u> <u>fine sand, little silt</u> <u>silt and fine sand</u>	<u>black grey</u> <u>buff</u> <u>blk. brn</u>	<u>medium</u> <u>dense</u> <u>stiff</u>	<u>damp</u>		
3												
4		<u>S3</u>	<u>1.58</u> <u>2.0</u>	<u>5</u> <u>5</u> <u>3</u> <u>4</u>		<u>0.1</u>	<u>fine sand little silt</u>	<u>light brn</u>	<u>loose</u>	<u>damp</u>		
5												
6		<u>S4</u>	<u>1.83</u> <u>2.0</u>	<u>4</u> <u>4</u> <u>3</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>		
7										<u>wet</u>		<u>Water at 6.75</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.: SB15 (AST) SHEET 1 OF 1

FIELD TEST BORING RECORD

PROJECT: Site 9 Fire
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

NORTH: _____
 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 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</u>	<u>7</u>	<u>85° overcast</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' 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	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	PID (ppm)						
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>0</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>		<u>0</u>	<u>fine sand, little silt</u>	<u>buff</u>	<u>loose</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>0</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.
 DRILLER: C. Chism

BAKER REP.: D.J. Martin
 BORING NO.: 16 (AST) SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 EU

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

MONTH: _____

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>9-15-92</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 DD = D1D0

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		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>				Do.					
4		S3	<u>1.67 / 2.0</u>	<u>7 5 3 5</u>		0			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>				End of boring at 7'					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: D J Martin

DRILLER: C. Chism

BORING NO.: Exc Station SB 17 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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" ID</u>		<u>3/4" ID</u>		<u>9-22-92</u>	<u>6'</u>	<u>88° 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 6' taking composite sample from 0-6'

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		A-N				fine sand and silt fine sand, little silt	lt. gray t. brown		dry		
2						fine sand little silt	tan		damp		
3		A-N									
4						fine sand, little silt					
5		A-N									
6									moist		
7											
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.
DRILLER: C. Chism

BAKER REP.: D.J. Martin
BORING NO.: SB 18 AST SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9, Fr.

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST: _____

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" 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 = D1DD0

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	ELEVATION
				Blows Per 0.5'	Pen. Rate	PID (ppm)						
1		S1	1.5 / 2.0	3			fine sand, little silt, trace clay FILL	brown with yellow & black mottling	medium dense	dry		
2			75%	6								
3		S2	1.5 / 2.0	9			fine sand, little silt, trace clay in fine gravel sized particulates, charred wood FILL	black brn	medium dense	damp		
4			75%	5								
5		S3		3			DO. trace fine gravel FILL	black brown	loose	damp		
6				2								
7		S4	1.5 / 2.0	2			fine sand little silt	black brown to tan to yellow brn	loose	moist	Water at 6.5'	
8			75%	1			trace fine gravel, charred wood.			wet		
9				5								
10				8			End of boring at 8'					

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 L

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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		9-16-92	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	Sample ID	Samp. Rec.	SPT Blows Per 0.5'	Lab. Class.	H ₂ 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.)	(Ft. & %)	RQD (FL & %)		
1		S1				1.4	SILT w/ little sand	buff	loose	Dry Root (plant material)		
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			65%	6		1.4						
6			.9	3				lite brown	medium dense	Wet		
7			45%	11		1.4	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*18 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 L

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ALL	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.	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				SILT w/ little sand	buff to gray	Loose	Dry		Root material Trace gravel
1		A-N	1.1 / 2.0	8		SAND fine grained w/ trace silt	brown to lite brown	medium dense	Damp		
2				5	1.4						
3			55%	8							
4		S3	1.1 / 2.0	2		SAND fine grained	lite brown	loose to medium dense	Damp to Moist		orange streaks
5			55%	5							
6			1.5 / 2.0	3			lite brown	medium dense	Moist		orange streaks
7			75%	12		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*19 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 L
S.O. NO.: 19133
COORDINATES: EAST: _____
ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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.)	<u>1 3/8" ID</u>		<u>3 1/4" ID</u>		<u>9-16-92</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>								
WALL	<u>30"</u>								
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						
						SILT w/ little sand	brown	Loose	Dry gravel		
1		<u>31</u> <u>A-N</u>	<u>16</u> <u>2.0</u>	<u>7</u>		SAND fine grained w/ trace silt	yellow brown to gray to brown	medium dense to loose	Damp		
2			<u>80%</u>	<u>4</u>	<u>112</u>						
3			<u>2.0</u> <u>2.0</u>	<u>4</u>		SAND fine grained	lite brown	Loose	Moist orange striations		
4		<u>52</u>	<u>100%</u>	<u>2</u> <u>3</u> <u>3</u>	<u>112</u>						
5			<u>1.7</u> <u>2.0</u>	<u>5</u> <u>5</u> <u>4</u>			lite brown	medium dense	Wet orange (at bottom) staining		
6			<u>85%</u>	<u>5</u>	<u>112</u>						
7						END of Boring					
8											
9											
10											

DRILLING CO.: Hardin Huber, Inc.
DRILLER: T. CRAWLER

BAKER REP.: J.E. Zimmerman, Jr.
BORING NO.: Site 9 TPO SB# 20 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19633

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>3/4" ID</u>		<u>9-16-92</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>								
BL	<u>30"</u>								
BACK 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.		Classification (Name, 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	MNU PID (ppm)						
							No Recovery					
1		A-N	1.3	7			SAND fine grained	brown	medium dense	Damp		
2		S2	2.0	12			with trace silt					
3			65%	15		1.2						
4			1.5	16			SAND fine grained	brown	medium dense	Damp		
5			2.0	4								
6			75%	8		1.2						
7			1.0	3				gray to yellow brown	medium dense	Moist orange striations		
8		S5	2.0	16								
9			1.0	5				light gray to light brown	medium dense	Net (at bottom)		
10			2.0	10		1.2						
			50%	11								
			2.0	16			END of Boring					

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

BAKER REP.: J. E. Zimmerman, Jr.
 BORING NO.: Site 9 TPO SB#2 / SHEET 1 OF 1

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc.

PROJECT: SITE 4

CTO NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: SB 20

NORTH: _____

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>9-22-92</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.									
FALL									
STICK UP									

REMARKS: SOIL BORING ADVANCED USING 3 1/4" AUGERS.
(13 SAMPLES COLLECTED 0 TO 6")

DRILL RECORD							VISUAL DESCRIPTION				
DEPTH	SOIL	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	
	ROCK	Type - No. (N = No Samp.)									Samp. Rec. (Ft. & %)
1		AN	7			FINE MEDIUM SAND AND GRAVEL					
			1.5								
2		S1	18		1.4	SAND-FINE	LT. GRAY	MED. DENSE	DAMP		
			2								
3			9								
			75%								
4		S2	3		1.8	SAND-FINE	BROWN	LOOSE	DAMP		
			1.6								
5			4								
			79%								
6		S3	2		1.6	SAND-FINE	Yellow-Brown	LOOSE	DAMP, MOTTLED ORANGE		
			1.25								
7			5								
			63%								
8		S4	3		2.2	SAND-FINE TRACE SILT	BROWN	LOOSE	WET, MOTTLED ORANGE		
			1.75								
9			6								
			82%								
10		S5	2		1.7	WATER	GRAY	LOOSE	WET, MOTTLED ORANGE		
			1.5								
			75%								
			8								
			1.5								
			75%								
			7								
			1.5								
			75%								
			7								

DRILLING CO.: HARDIN-HURER

DRILLER: TOM GRAMER

BAKER REP.: KENNETH A. TILIA

BORING NO.: SB 20

SHEET 1 OF 1



FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: SITE 1

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			END OF BORING				
12				10							
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

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 L
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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								
ALL	30"								
PICK 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
		S1				buff	Loose	Dry Root/plant material trace gravel			
1		A-N	1.3 / 3		SAND fine grained w/ trace silt	brown	medium dense	Damp			
2			2.0 / 5	1.5							
3			65% / 6		SAND fine grained	light gray to brown	medium dense to loose	Damp to Moist			
4		S3	1.1 / 3	1.4							
5			2.0 / 4								
6			55% / 4			light gray	loose	Wet			
7			1.5 / 2	1.4							
8			2.0 / 4								
9			4 / 4								
10			75% / 6		END of Boring						

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. CRAWLEY

BAKER REP.: J.E. Zimmerman, Jr.
 BORING NO.: Site 9 TPO SB*23 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19633

COORDINATES: EAST: _____ NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

RIG: # <u>19</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>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>								
ROD	<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.	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 ROCK	ELEVATION
							ROD (Ft & %)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>A-N</u>	<u>17</u>	<u>15</u>			<u>SAND fine grained ultrace silt</u>	<u>brown</u>	<u>medium dense</u>	<u>Damp</u>		
2		<u>S2</u>	<u>20</u>	<u>14</u>		<u>1.2</u>						
3			<u>85%</u>	<u>14</u>			<u>SAND fine grained</u>	<u>gray to dk brown to lite brown</u>	<u>medium dense</u>	<u>Damp</u>		
4			<u>1.3</u>	<u>11</u>		<u>1.2</u>						
5			<u>65%</u>	<u>4</u>								
6		<u>S4</u>	<u>1.8</u>	<u>8</u>		<u>1.2</u>		<u>lite brown</u>	<u>medium dense</u>	<u>Moist</u> <u>orange stratifications</u>		
7			<u>90%</u>	<u>6</u>								
8			<u>1.5</u>	<u>6</u>		<u>1.2</u>		<u>lite brown</u>	<u>medium dense</u>	<u>Wet</u> <u>orange stratifications</u>		
9			<u>75%</u>	<u>5</u>								
10							<u>END of Boring</u>					

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

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

BORING NO.: Site 9 TPO SB#24 SHEET 1 OF 1

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc.

PROJECT: SITE 9

CTO NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

NORTH: _____

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>9-22-93</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 OTHER COMMENTS

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>1-11</u>				<u>FILL MATERIAL SAND AND GRAVEL</u>					
2		<u>S1</u>	<u>1.83</u> <u>2</u>	<u>7</u>		<u>SAND-FINE TRACE SILT</u>	<u>DARK BROWN</u>	<u>LOOSE DAMP</u>			
3			<u>92%</u> <u>2</u>	<u>5</u>		<u>3" SAND-FINE TRACE SILT</u>	<u>GRAY</u>				
4		<u>S2</u>	<u>1.3</u> <u>2</u>	<u>2</u>	<u>1.3</u>	<u>4" SAND-FINE SAND-FINE</u>	<u>GRAY BROWN</u>	<u>LOOSE DAMP</u>			
5			<u>66%</u> <u>2</u>	<u>4</u>		<u>6" SAND-FINE</u>	<u>GRAY</u>	<u>LOOSE</u>	<u>MOIST, MOTTLED GREEN</u>		
6		<u>S3</u>	<u>1.66</u> <u>2</u>	<u>2</u>	<u>1.3</u>	<u>SAND-FINE</u>	<u>BROWN</u>				
7			<u>83%</u> <u>2</u>	<u>6</u>		<u>SAND-FINE</u>	<u>BROWN</u>				
8		<u>S4</u>	<u>1.75</u> <u>2</u>	<u>3</u>	<u>1.3</u>	<u>SAND-FINE</u>	<u>BROWN</u>				
9			<u>87%</u> <u>2</u>	<u>7</u>		<u>SAND-FINE</u>	<u>BROWN</u>				
10		<u>S5</u>	<u>1.75</u> <u>2</u>	<u>7</u>	<u>1.3</u>	<u>SAND-FINE</u>	<u>BROWN</u>				

DRILLING CO.: HARDIN - HUBER

DRILLER: TOM CRANER

BAKER REP.: KENNETH A. TINA

BORING NO.: SB 25

SHEET 1 OF 5



FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: SITE 9
 S.O. NO.: 19133

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 (FL & %)	Pen. Rate		Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK
11	S	S		13			END OF BORING				
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

DRILLING CO.: HARDIN - HULER
 DRILLER: TONY CRADER

BAKER REP.: KENNETH A. TUA
 BORING NO.: SB 25 SHEET 2 OF 2



FIELD TEST BORING RECORD

PROJECT: Site 9 CLEJ-01272-3.13-08/20/93
 S.O. NO.: 1933
 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		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
	30"								
W/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.	HAX 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		
		SI				1.4	SILT w/ little sand	brown	loose	Dry to Root material, gravel		
1		A-N	1.5	7			SAND fine grained w/ trace silt	gray	medium dense	Damp		
2			2.0	6		1.4						
3			75%	4			SAND fine grained	brown	Loose	Moist		
4		SB	1.1	3		1.4						
5			2.0	4								
6			55%	5								
7			.5	2				lite gray	medium dense	Wet		
8			2.0	6		1.4						
9			7	7								
10			25%	8			END OF Boring					

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.
 BORING NO.: Site 9 TPO SB# 26 SHEET 1 OF

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19655

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		9-16-92	9'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
ALL	30"								
PICK UP									

MARKS: 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.	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						
		-				No Recovery	-	-	-		
1		A-N									
2		SZ	1.5/2.0	6 14		SAND fine grained w/trace silt	gray to dk gray to yellow orange	medium dense	Damp		
3			75%	20							
4			1.4/2.0	3 17		SAND fine grained	brown to dk gray to lite gray to brown	medium dense	Damp		
5			70%	10							
6		S4	1.3/2.0	2 3			yellow brown	Loose	Wet	orange streaks	
7			65%	4 5							
8			1.4/2.0	2 6 9							
9			70%	12							
10						END of Boring					

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

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

BORING NO.: Site 9 TPO SB#27 SHEET 1 OF 1

FIELD TEST RODING RECORD

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc.

PROJECT: SITE 11
 CTO NO.: 7-5
 COORDINATES: EAST: _____ NORTH: _____
 ELEVATION: SURFACE: _____ TOP OF STEEL CASING: _____

RIG: <u>B-47</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	2.0		3 1/4"		9-22-92	9	Hot	8	
TYPE	STD		HSA						
HAMMER WT.	140 #								
FALL	20"								
STICK UP									

REMARKS: Soil Rods Advanced to Water Table Using 3/4" Auger
NO SAMPLE COLLECTED 2-6"

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			AN 1.5/2	6			FILL MATERIAL SAND-FINE SAND GRAVEL	DARK BROWN	MD DENSE	DRY	
2		S1	15%	9 13		1.0					
3			1.3/2	7			SAND-FINE	DARK BROWN	MD DENSE	DRY	
4		S2	66%	12 13		1.0					
5			1.4/2	8			4" SAND-FINE SAND-FINE	LT. CLAY STICKY TO WALL	MD LOOSE	DRY LITTLE, MOTTLED BROWN	
6		S3	11%	4 4		1.0					
7			1.4/2	5			SAND-FINE LITTLE SILT	WHITE	LOOSE	WET	
8		S4	11%	5		1.05	SILT				
9			1.4/2	7			4" SAND-FINE LITTLE SILT SAND-FINE GRAVEL	CLAY	LOOSE	WET	
10											

DRILLING CO.: PROVINCE BAKER REP.: KENNETH A. TULLA
 DRILLER: TOM CRAMER BORING NO.: SB-28 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9 L

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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		9-16-92	7'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
BLANK	30"								
BLANK 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	
											Sample Rec. (Ft. & %)
		S1			SILT w/ little sand	buff to gray	Loose	DRY Root/Plant material, gravel			
1		A-N	1.4	6	SAND fine grained w/ trace silt	dk. gray to lite gray	medium dense	Damp			
2			2.0	7							
3			70%	5	SANDS fine grained	brown to lite brown	Loose	Moist			
4		S3	1.5	2							
5			2.0	3							
6			75%	5							
7			1.4	2		lite brown to gray	medium dense	Wet			
8			2.0	6							
9			6	6							
10			70%	11	END OF Boring						

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. CRAWLER

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 L
 S.O. NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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 5/8" 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. (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	HAK PID (ppm)			
						SILT w/ little sand	brown	Loose	Damp Trace gravel		
1		A-N	1.2	9		SAND fine grained w/ trace silt	dk. gray to light gray	medium dense	Damp		
2			2.0	12	1.2						
3			60%	10		SAND fine grained	dk. brown to brown to yellow brown	medium dense	Moist		
4		S3	1.5	5							
5			75%	8							
6			1.6	2			yellow brown	medium dense to loose	Moist	orange stain	
7			2.0	3	1.5	END of Boring					
8			80%	6							
9				9							
10											

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

BAKER REP.: J.E. Zimmerman, Jr.
 BORING NO.: Site 9 TPO SG#30 SHEET 1 OF 1

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc.

PROJECT: 197

CTO NO.: 19133

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

BORING NO.: SB 31

NORTH: _____

TOP OF STEEL CASING: _____

RIG: <u>B-53</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	<u>1 3/8"</u>		<u>1 1/4"</u>		<u>9-22-92</u>	<u>7</u>	<u>PARTLY SUNNY</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 5"

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	PI0	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		A-N					SOIL ABOVE IS SAND AND GRAVEL					
2		S	<u>1.3</u> <u>2</u>	<u>12</u>			SAND - FINE GRAIN	<u>DARK</u>	<u>MED</u> <u>DENSE</u>	<u>2%</u>		
3			<u>4.7%</u>	<u>8</u>								
4		SR	<u>1.40</u> <u>8</u>	<u>3</u>		<u>1.9</u>		<u>LT. BROWN</u>	<u>LOOSE</u>	<u>DAMP, MOTTLED YELLOW</u>		
5			<u>7.7%</u>	<u>3</u>								
6		SB	<u>1.5</u> <u>2</u>	<u>3</u>		<u>1.9</u>		<u>LT. BROWN</u>	<u>LOOSE</u>	<u>DAMP TO WET</u> <u>YELLOW CLAY</u>		
7			<u>10%</u>	<u>3</u>			WATER AT END OF BORING					
8												
9												
10												

DRILLING CO.: FRANK - GIBBY

DRILLER: TOM CRAMER

BAKER REP.: KENNETH A. TUP

BORING NO.: SB 31

SHEET 1 OF 1

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93



PROJECT:
 CTO NO.: 17123
 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>9-20-92</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: DRILL BORING ADVANCED TO WATER TABLE USING 3/4" AUGERS
NO SAMPLE COLLECTED 0 TO 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	Pen. Rate	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		<u>51</u>	<u>1.5</u>	<u>15</u>			<u>FILL MATERIAL SAME WITH SAND</u>					
2		<u>51</u>	<u>1.5</u>	<u>16</u>		<u>1.5</u>	<u>SAND-FINE</u>	<u>DARK GRAY</u>	<u>MED DENSE</u>	<u>CLAY. DARK STREAKS</u>		
3		<u>51</u>	<u>1.5</u>	<u>17</u>			<u>SAND-FINE SOME SILT</u>	<u>LT. GRAY</u>	<u>LOOSE</u>	<u>DRY. DARK STREAKS</u>		
4		<u>52</u>	<u>1.5</u>	<u>6</u>		<u>1.5</u>						
5		<u>52</u>	<u>1.5</u>	<u>8</u>								
6		<u>52</u>	<u>1.5</u>	<u>9</u>			<u>2" SAND-FINE TRICE SILT</u>	<u>BROWN GRAY</u>	<u>LOOSE</u>	<u>DAMP TO MOIST.</u>		
7		<u>52</u>	<u>1.5</u>	<u>3</u>		<u>1.6</u>	<u>3" SAND-FINE SOME CLAY</u>	<u>BROWN</u>				
8		<u>54</u>	<u>1.5</u>	<u>3</u>			<u>4" SAND-FINE LITTLE CLAY</u>	<u>BROWN</u>				
9			<u>1.5</u>	<u>1</u>			<u>WATER</u>					
10			<u>1.5</u>	<u>1</u>		<u>1.7</u>	<u>SAND-FINE AND CLAY</u>	<u>LT. GRAY</u>	<u>LOOSE</u>	<u>WET.</u>		
			<u>1.5</u>	<u>1</u>			<u>END OF BORING</u>					

DRILLING CO.: WALDIN-HUBER BAKER REP.: BAKER P.P.
 DRILLER: TOM CAMPBELL BORING NO.: SB 32 SHEET 1 OF 1

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

PROJECT: Site 9
 S.O. NO.: 19/33
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

CLEJ-01272-3.13-08/20/93

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								
CL	30"								
CK UP									

MARKS: 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 ₂ 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		
		31				1.3	SILT w/ little sand	buff to gray	Loose	Dry Root/Plant material/gravel		
1		A-N	1.4	5			SAND fine grained w/ trace silt	gray to lite gray	medium dense	Damp gray bands		
2			2.0	11		1.4						
3			70%	8								
4		32	1.4	3			SAND fine grained	brown to lite 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						
9			85%	5								
10				6			END of Boring					

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: T. Cramer

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 L

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19433

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"								
W/CK 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.	H/Nx 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. & %)
1		21 A-N			1.8	SILT w/ little sand	brown	Loose	Dry to Damp Trace gravel		
2			11.5 2.0	8 7		SAND fine grained w/ trace silt	brown	medium dense	Damp occasional striations		
3			75%	6	1.8						
4			1.4 2.0	2 3		SANDS fine grained	brown	Loose	Moist		
5			70%	2	1.8						
6		54	1.4 2.0	2 2			brown	Loose	Wet		
7			70%	1	2.1						
8						END OF Boring					
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

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc.

PROJECT: SITE
 CTO NO.: 19135 BORING NO.: SB 35
 COORDINATES: EAST: _____ NORTH: _____
 ELEVATION: SURFACE: _____ TOP OF STEEL CASING: _____

RIG: <u>B-53</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
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>1-10 #</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: SOIL BORING ADVISED TO WATER TABLE USING 3 1/4" AUGER
0-6" SAMPLE WAS COLLECTED FROM AUGER CUTTINGS.

DRILL RECORD							VISUAL DESCRIPTION					
DEPTH	SOIL ROCK	Sample ID	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		S1 A-N	-	-		1.9	SAND-FINE	BROWN	-	DRY		
2		S2	1.6 2	4			SILT-FINE LITTLE SPT	BROWN	LOOSE	DRY, MOTTLED ORANGE		
3			79%	3								
4		S3	1.3 2	2			SAND-FINE TRACE SILT	BROWN	VERY LOOSE	DAMP, MOTTLED ORANGE		
5			67%	1								
6		S4	1.47 2	3		3.1	SAND-FINE	GRAY	LOOSE	DAMP, BLACK STRIPES		
7			23%	6								
8		S5	1.5 2	4			WATER SAND-FINE TRACE SILT	BROWN	LOOSE	WET BLACK STRIPES		
9			75%	5								
10							END OF BORING					

DRILLING CO.: HARVEY-HUBER
 DRILLER: TOM CRADOCK

BAKER REP.: KENNETH A. TUSA
 BORING NO.: SB 35 SHEET 1 OF 1

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc.

PROJECT: SITE 9
 CTO NO.: 19133
 COORDINATES: EAST: _____
 ELEVATION: SURFACE: _____

BORING NO.: SB 36
 NORTH: _____
 TOP OF STEEL CASING: _____

RIG: <u>B-53</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
LENGTH	TYPE	HAMMER WT.	FALL	STICK UP					
<u>1 3/8"</u>	<u>STD</u>	<u>140#</u>	<u>30"</u>		<u>9-22-92</u>	<u>7</u>	<u>PART SUN, HOT</u>	<u>7</u>	
<u>2.0</u>	<u>5.0</u>	<u>HSA</u>							

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 / ROCK	ELEVATION
		Type - No. (N = No Samp.)	RQD (Ft. & %)	Pen. Rate	PID	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations		
1		S1 A-N	-		1.7	SAND-FINE	BROWN	-	DRY		
2		S2	1.08 / 2	4	1.8	SAND-FINE	LT. BROWN	LOOSE	DRY		
3		S3	1.3 / 2	3	1.8	SAND-FINE	LT. GRAY	LOOS	DAMP, DARK STREAKS		
4		S4	1.3 / 2	2	1.7	SAND-FINE TRINE SIFT	GRAY	VERY LOOSE	WET, YELLOW STREAKS		
5			67%	5							
6			67%	2							
7				2							
8				2							
9				2							
10				2							

DRILLING CO.: HARDIN-HUBER
 DRILLER: TOM CRUIER

BAKER REP.: KENNETH TUA
 BORING NO.: SB 36

Baker

Baker Environmental, Inc.

FIELD TEST BORING RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 9

S.O. NO.: 19/33

COORDINATES: EAST: _____

ELEVATION: SURFACE: _____

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		9-16-92	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						HAK PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness
1		S1				SILT w/ little sand	gray	loose	Dry gravel					
2		A-N	13/20	9		SAND fine grained w/ trace silt	dk gray to gray	medium dense	Damp					
3				12						SAND fine grained	brown	medium dense	Damp to moist	
4			12/20	9										
5				7										
6		S4	15/20	3										
7				8										
8				10										
9				9										
10						END OF Boring								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: T. Cramer

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

BORING NO.: Site 9 TPO SB# 37 SHEET 1 OF 1



FIELD TEST BORING RECORD

PROJECT: Site 9 CLEJ-01272-3.13-08/20/93
 S.O. NO.: 19/33
 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		9-16-92	7'	Sunny/warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
LL	30"								
WICK UP									

MARKS: 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							HNK PID (ppm)
1		S1 A-N				1.7	SILT w/ little sand	buff to gray	Loose			
2			1.2 2.0	24 19 14		1.6	SAND fine grained w/ trace silt	dk. gray to lite brown	dense			
3			60% 1.2 2.0	12 8 6		1.7	SAND fine grained	dk brown to brown	medium dense			
4			60% .9 2.0	7 8 9		2.1		lite brown to brown	medium dense			
5			45%	10								
6		S4										
7							END OF Boring					
8												
9												
10												

DRILLING CO.: Hardin Huber, Inc. BAKER REP.: J.E. Zimmerman, Jr.
 DRILLER: T. CRAWLEY BORING NO.: Site 9 TPO SB*38 SHEET 1 OF 1



FIELD TEST BORING RECORD

PROJECT: Site 9

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19/33

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		9-16-92	7'	Sunny/Warm		
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140								
WELL	30"								
PICK 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.	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	HAZ PID (ppm)	Classification (Name, Grain Size, Principal Constituents, Etc.)	Color	Hardness	Weathering, Bedding, Fracturing, and Other Observations	ROCK	
1		S1				116	SILT w/ little sand	buff to gray	Loose	Dry Root/Plant material, gravel		
2		A-N	1.2/2.0	14		116	SAND fine grained w/ trace silt	dk. gray to gray to brown	medium dense	Damp		
3			60%									
4		S3	1.2/2.0	14		116	SAND fine grained	brown	medium dense	Moist		
5			60%									
6			1.3/2.0	4		117		light brown		Wet orange streaks		Wa 6
7			65%				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*39 SHEET 1 OF 1

D.12
Test Pits

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP L.L.

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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 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. MARSH

TEST PIT NO.: TR 1952 A

SHEET 1

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP 4

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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	NA	0.75	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
3	NA	0.75	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
4	NA	0.75	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
5	NA	0.75	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
6	NA	0.60	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
7	NA	0.60	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
8	NA	0.60	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
9	NA	0.60	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
10	NA	0.60	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
11	NA	0.60	UNDISTURBED SOIL DISTINCT SOIL HORIZONS VISIBLE NO DEBRIS PRESENT	
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

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJ
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

COORDINATES: EAST _____

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	G 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	G TR 1952 05			SOIL COLOR RANGE - GREY - BLACK - BROWN NO DEBRIS PRESENT	
10					
11					
12		1.0			
13					
14					
15					

CONTRACTOR: GEO-CENTERS, INC.
EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN
TEST PIT NO.: TR 1952 C SHEET 1

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

MONTH: _____

SURFACE ELEVATION: _____

DATE: 29 SEPT 92

WEATHER: P. CLOUDY 65 OF

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. NO DEBRIS PRESENT.	
2	NA	1.0		UNDISTURBED SOIL NO DEBRIS PRESENT	
3					
4	NA			UNDISTURBED SOIL NO DEBRIS PRESENT	
5					
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.: TR 1952 C (2)

SHEET 10

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP 4

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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	UNDISTURBED SOIL NO DEBRIS PRESENT	
3				
4	NA		UNDISTURBED SOIL NO DEBRIS PRESENT	
5				
6	NA		UNDISTURBED SOIL NO DEBRIS PRESENT	
7				
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

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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 NO DEBRIS PRESENT	
2	NA		11.0	UNDISTURBED SOIL NO DEBRIS PRESENT	
3				UNDISTURBED SOIL NO DEBRIS PRESENT	
4	NA		11.0	UNDISTURBED SOIL NO DEBRIS PRESENT	
5				UNDISTURBED SOIL NO DEBRIS PRESENT	
6	NA		11.0	UNDISTURBED SOIL NO DEBRIS PRESENT	
7				UNDISTURBED SOIL NO DEBRIS PRESENT	
8	NA		11.0	UNDISTURBED SOIL NO DEBRIS PRESENT	
9					
10					
11					
12					
13					
14					
15					

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR1956C

SHEET 1 OF 1

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST

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 0-7' 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.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: TR 1960 A

SHEET 1

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: F133

COORDINATES: EAST _____

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 10

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST

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		UNDISTURBED SOIL NO DEBRIS PRESENT	
3					
4	NA	1.0		UNDISTURBED SOIL NO DEBRIS PRESENT	
5					
6	NA	1.0		UNDISTURBED SOIL NO DEBRIS PRESENT	
7					
8	NA	1.0		UNDISTURBED SOIL NO DEBRIS PRESENT	
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 10

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

INSTR. _____

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

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJE
S.O. NO.: 19133
COORDINATES: EAST _____
SURFACE ELEVATION: _____
WEATHER: P. CLOUDY 65°F

CLEJ-01272-3.13-08/20/93

DATE: 28 SEPT. 92

REMARKS: A LOT OF MILITARY/CONSTRUCTION DEBRIS ENCOUNTERED. SAMPLE OBTAINED OF BLUE/AQUA MATERIAL AND BOTTOM OF P.T.

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 196A 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 196A 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

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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			SOIL APPEARED CLEAN - SAND NO DEBRIS PRESENT	
2	NA	-		
3			COMMUNICATION WIRE, SCRAP METAL, WOOD A LOT OF MIXED DEBRIS.	
4	NA	-		
5			COMMUNICATION WIRE, SCRAP METAL WOOD, 95MM CASINGS - BLUE AQUA COLORED MATERIAL	
6	NA	-		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: TR 1964A (2)

SHEET 1 OF 10

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

NUMER. _____

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

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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) BURIED TREE STUMP ROCKS INTERMIXED WITH SOIL. NO DEBRIS PRESENT	
4	NA	0.75		
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

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: TR 1970 A

SHEET 1

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP 4

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

SURFACE ELEVATION: _____

DATE: 27 SEPT 92

WEATHER: SUNNY 85 °F

REMARKS: 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		BURIED DRUM (REMAINS) ENCOUNTERED, ALONG WITH SCRAP METAL. CLASSIFIED AS MILITARY/ CONSTRUCTION DEBRIS	
6	02	1.90		
7	6 TR 1970		SCRAP METAL ENCOUNTERED - CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
8	03	1.90		
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

SHEET 1

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP 44

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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 1970C

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 1970C (2)

SHEET 1

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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		6-8" LAYER OF BLUE/AQUA COLORED MATERIAL ENCOUNTERED. SUSPECTED TO BE BATTERY ACID.	
6	01	2.10		
7			BURNED RESIDUE VISIBLE. METAL AND WOOD PRESENT. CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
8	NA	1.90		
9	6 TR 1970		SCRAP METAL AND MISCELLANEOUS DEBRIS PRESENT. CLASSIFIED AS MILITARY / CONSTRUCTION DEBRIS.	
10	05			
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 10

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LE.

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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			6-8" LAYER OF BLUE/AQUA COLORED MATERIAL ENCOUNTERED. SUSPECTED TO BE BATTERY ACID.	
5				
6			BURNED RESIDUE VISIBLE METAL AND WOOD PRESENT. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS	
7				
8			SCRAP METAL AND MISCELLANEOUS DEBRIS PRESENT. CLASSIFIED AS MILITARY/CONSTRUCTION DEBRIS.	
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

BAKER REP.: KENNETH J. MARTIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TR1970 D (2) SHEET 1

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP 4

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

SURFACE ELEVATION: _____

DATE: 27 SEPT. 92

WEATHER: SUNNY 85°F

REMARKS: 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.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: TR 1970 E

SHEET 1

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

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

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

SURFACE ELEVATION: _____

WEATHER: P. CLOUDY 65°F

DATE: 29 SEPT. 92

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.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: GS 1960 A (2)

SHEET 1

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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	6 GS 1960			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	01	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.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: GS 1960 B

SHEET 1

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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			1-5 GALLON CONTAINERS CONTAINING LIQUIDS (MAY HAVE BEEN WATER.) SAMPLE OBTAINED OF LIQUID/SLUDGE. CONTAINERS IN POOR CONDITION.	
4		1.0			
5	6 GS 1960 03			1-5-GALLON CONTAINERS (BUCKETS), COMMUNICATION WIRE	
6		1.0		SAMPLE OBTAINED AT BOTTOM OF TRENCH	
7					
8					
9					
10					
11					
12					
13					
14					
15					

CONTRACTOR: GEO-CENTERS

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: GS 1960 D SHEET 10

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

SURFACE ELEVATION: _____

DATE: 30 SEPT 92

WEATHER: P. CLOUDY 65°F

REMARKS: MILITARY / CONSTRUCTION DEBRIS 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 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.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: GS 1960 E

SHEET 1

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST

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.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: GS 1964 A SHEET 1

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST

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			SURFACE SCRAP / DEBRIS VERY LITTLE SCRAP INTERMIXED WITH SOIL	
2	NA	1.5	-	
3			SOIL APPEARED SATURATED MAY BE H ₂ O TABLE.	
4	NA	1.5		
5			NO DEBRIS PRESENT	
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.: TROOD1

SHEET 1

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJ

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST

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			<i>SURFACE SCRAP / DEBRIS. VERY LITTLE SCRAP INTERMIXED WITH SOIL.</i>	
2	NA	1.0		
3			<i>SOIL APPEARED UNDISTURBED, NO DEBRIS. PRESENT.</i>	
4	NA	1.0		
5			<i>SOIL APPEARED UNDISTURBED, NO DEBRIS PRESENT.</i>	
6	NA	1.0		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J MARTIN

TEST PIT NO.: TRO002

SHEET 1

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEJI

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST

SURFACE ELEVATION: _____

DATE: 30 SEPT. 92WEATHER: P. SUNNY 49°FREMARKS: 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	1.0		
3			NO DEBRIS PRESENT. SOIL APPEARED UNDISTURBED.	
4	NA	1.0		
5			NO DEBRIS PRESENT SOIL APPEARED UNDISTURBED. ELEVATED READING RELATED TO HIGH ORGANIC CONTENT OF SOIL.	
6	NA	10+		
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO-CENTERS, INC.BAKER REP.: KENNETH J. MARTINEQUIPMENT: CASE 580 BACKHOETEST PIT NO.: TR0003SHEET 1 C

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJ

S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

COORDINATES: EAST

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					
2	NA	1.0		SURFACE SCRAP / DEBRIS. VERY LITTLE SCRAP INTERMIXED WITH SOIL.	
3					
4	NA	10		WOOD DARK BLACK SOIL - SUSPECTED TO BE HIGH IN ORGANIC MATTER - EXPLAINS ELEVATED OVA READING.	
5					
6	NA	10		WOOD DEBRIS (BOARDS) SOIL APPEARED TO BE CLEAN. SUSPECTED TO BE HIGH IN ORGANIC MATTER.	
7					
8					
9					
10					
11					
12					
13					
14					
15					

CONTRACTOR: GEO-CENTERS, INC.

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: KENNETH J. MARTIN

TEST PIT NO.: TRO004

SHEET 1 C

Baker

Baker Environmental, Inc

TEST PIT RECORD

PROJECT: CAMP LEJE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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. MARLIN

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: TROOD5

SHEET 10

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMP LEE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19133

COORDINATES: EAST _____

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				
4	NA	< 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.	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

CONTRACTOR: GEO CENTER'S

BAKER REP.: PETE MONDAY

EQUIPMENT: CASE 580 BACKHOE

TEST PIT NO.: 6-TPI

SHEET 1 OF

Baker

Baker Environmental, Inc.

TEST PIT RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: CAMP LEJ

S.O. NO.: 19133

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 HOMOGENIOUS SOIL HORIZON NO DEBRIS PRESENT	
2				
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

Baker

Baker Environmental, Inc.

TEST PIT RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: CAMA 1

S.O. NO.: 19133

COORDINATES: EAST _____

SURFACE ELEVATION: _____

WEATHER: OVERCAST 50°F

NORTH: _____

DATE: 3 MARCH 93

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

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: PETE MONDAY

TEST PIT NO.: 6-TP3

SHEET

Baker

Baker Environmental, Inc.

TEST PIT RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: CAMP LEETE

S.O. NO.: 19123

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	NA	HNU < 1	UNDISTURBED SOIL DISTINCT HORIZONS VISIBLE NO DEBRIS PRESENT	
2	NA		UNDISTURBED SOIL DISTINCT HORIZONS VISIBLE NO DEBRIS PRESENT	
3	NA	< 1		
4	NA		COMMUNICATION WIRE PRESENT DISTINCT HORIZONS	
5	NA	< 1	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

EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: PETE MONDAY

TEST PIT NO.: 6-TP4

SHEET



TEST PIT RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: CAMP LE
 S.O. NO.: 19133
 COORDINATES: EAST _____
 SURFACE ELEVATION: _____
 WEATHER: OVERCAST 50°F

NORTH: _____
 DATE: 3 MARCH 93

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	NA			UNDISTURBED SOIL DISTINCT HORIZONS PRESENT SMALL PIECES OF METAL DEBRIS.	
3	NA	<2			
4	NA			METAL DEBRIS INCREASES SEVERAL 1/2 GALLON UP TO 5 GALLON CONTAINERS ENCOUNTERED FROM 5'-7'	
5	NA	<2		SUBSURFACE CONTAINERS	
6	6-TP5-02				
7	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	NA	10		UNDISTURBED SOIL DISTINCT HORIZONS PRESENT	
10					
11					
12					
13					
14					
15					

CONTRACTOR: GEOCENTERS
 EQUIPMENT: CASE 580 BACKHOE

BAKER REP.: PETE MONDAY
 TEST PIT NO.: 6-TP5 SHEET 1

Baker

Baker Environmental, Inc.

TEST PIT RECORD

PROJECT: CAMPLETE

CLEJ-01272-3.13-08/20/93

S.O. NO.: 19173

COORDINATES: EAST

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 MCARDAY

EQUIPMENT: CASE 550 BACKHOE

TEST PIT NO.: 6-TP7

SHEET 1

CLEJ-01272-3.13-08/20/93

Appendix E
Test Boring and Well Construction Records

TEST BORING LOG LEGEND

<u>SOIL DESCRIPTION</u>	<u>ROCK DESCRIPTIONS</u>																																																																																																																
<p><u>GRAIN SIZE IDENTIFICATION</u></p> <table style="width: 100%; border-collapse: collapse;"> <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;"><u>RELATIVE DENSITY</u></p> <p style="text-align: center;"><u>NONCOHESIVE SOIL</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <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> <p style="text-align: center;"><u>COHESIVE SOILS</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <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> <p><u>MOISTURE</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>DESCRIPTIVE TERMS</u></th> <th style="text-align: left;"></th> <th style="text-align: left;"></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	<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	<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>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; font-size: 1.2em;">CLEJ-01272-3.13-08/20/93</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 15%;">Soft -</td> <td style="width: 10%;">fingernail; easily broken by nano</td> <td style="width: 75%;">Couged by knife, scratched by fingernail, difficult to break by hand, powders with hammer</td> </tr> <tr> <td>Medium Hard -</td> <td>Easily scratched by knife, easily broken with hammer</td> <td></td> </tr> <tr> <td>Hard -</td> <td>Difficult to scratch, breaks with hammer</td> <td></td> </tr> <tr> <td>Very Hard -</td> <td>Difficult to break, rings when struck</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;"><u>WEATHERING</u></p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 15%;">Decomposed -</td> <td style="width: 10%;">Soft to Very soft, bedding and fractures indistinct, no cementation.</td> <td style="width: 75%;"></td> </tr> <tr> <td>Highly Weathered -</td> <td>Very soft to soft, with medium hard relict rock fragments: little to moderate cementation. 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CLEJ-01272-3.13-08/20/93

E.1

Site 6 - Shallow Wells



TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage L

CTO NO.: 19133

COORDINATES: EAST: 2502278.8

NORTH: 343595.0

ELEVATION: SURFACE: 18.6

TOP OF PVC CASING: 21.11

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	2.0'		5.0'		9/24/92	20	Overcast		
TYPE	STD		HSA		9/25/92		Cloudy, 70°s	9.26	24 hrs.
HAMMER WT.	140#				9/30/92		Sunny, 70°s	9.08	144 hrs.
FALL	30"								
STICK UP									

REMARKS: Soil samples collected 9/24/92. Casing set on 9/25/92. Type II Monitoring Well installed to 19.1' below ground surface.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.5 stick up	5.3
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core					
D = Denison	P = Piston	Well Screen	4"	Schedule 40 PVC, 10 slot	5.3	18.7
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	0.8 / 2	1		1.2	SILT, trace sand fine grained (ML); grey; very loose; dry	Top of Bentonite 1.0'	13.1
2		4%	1			SILT, trace SAND fine grained (ML); yellow loose; dry		
3	S-2	1.25 / 2	3		1.25	SILT and SAND, fine (ML); yellow; medium dense; dry to damp	Top of Sand 3.0'	13.1
4		63%	5					
5	S-3	1.6 / 2	4		1.3	SAND, fine some silt (SM); white; medium dense; wet mottled orange	Top of Screen 5.3'	13.1
6		83%	3					
7	S-4	1.25 / 2	8		1.25	Water at 6.0'	Water at 9.26' TOC on 9/25/92	13.1
8		63%	11					
9	A-N					Match to Sheet 2		13.1
10								

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Kenneth A. Tua

DRILLER: Tom Cramer

BORING NO.: 6GW9

SHEET 1 C

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Storage Lot
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample					PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
11						Continued from Sheet 1		
12	A-N					SAND, fine grained and SILT(SM); white; medium dense; wet		
13	13.0							
14	S-5	2.0 / 2	2 / 6		1.35	SAND, fine grained and SILT (SM); light grey; medium dense; wet; yellow streaks		
15	15.0	100%	14					
16	A-N							
17							Bottom of screen at 18.7'	
18								
19	S-6	2.0 / 2	8 / 7				Bottom of Well at 19.1'	
20	20.0	100%	8			End of Boring at 20.0'		-1.4
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

Baker

Baker Environmental, Inc.

TEST BORING A

CLEJ-01272-3.13-08/20/93

RD

PROJECT: Site 6, Lot 201 S

S.O. NO.: 19133

COORDINATES: EAST: 25022630.7

ELEVATION: SURFACE: 17.2

BORING NO.: 6GW10

NORTH: 343548.1

TOP OF PVC CASING: 19.88

RIG: B-47									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID 8 1/4" ID		9-23-92	18'		5	
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 18.5' collecting split- spoon samples. Installed a Type II monitoring well at 18'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.7 stickup	3.8
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	4"	Schedule 40 PVC, 10 slot	3.8	17.5
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	.5 2.0	1 3 4			SAND, fine, little silt (SM); brown; loose; damp		
2		25%	7					
3	S-2	2.0 2.0	3 4 5			SAND, fine, trace silt (SM); yellow; loose; damp		
4		100%	7					
5	S-3	1.66 2.0	5 4 8			SAND, fine, little silt (SM); gray; medium dense; damp to wet, water		
6		83%	8					
7	AN							
8								
9								
10								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Tom Cramer

BAKER REP.: Kenneth A. Tua

BORING NO.: 6GW10

SHEET 1 C

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
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Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	S-4	2.0	3			SAND, fine, little silt (SM); white; medium dense; wet, flowing sand			
12		2.0	5						
13	AN	100%	22			SAND, fine, little silt (SM); white; dense; wet, flowing sand			
14			29						
15									
16									
17	S-5	2.0	3			SAND, fine, little silt (SM); white; dense; wet, flowing sand			
18		2.0	10						
19	AN		22			End of Boring at 18.5'	Bottom of screen at 17.5'	Bottom of Well at 18.0'	
20			29				End of Boring at 18.5'		
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

Baker

Baker Environmental, Inc.

TEST BORING /

CLEJ-01272-3.13-08/20/93

RD

PROJECT: Site 6, Storage I

S.O. NO.: 19133

COORDINATES: EAST: 2502247.0

ELEVATION: SURFACE: 32.4

BORING NO.: 6GW11

NORTH: 347386.6

TOP OF PVC CASING: 35.05

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		10-10-92	0-19	Cool, muggy		
LENGTH	2'		5'		10-12-92	--	Sunny, 70°s	17.81	48 hrs.
TYPE	STD		HSA		10-26-92	--	Cloudy, 70°s	18.16	384 hrs
HAMMER WT.	140#				11-07-92	--	Cloudy, 50°s	18.47	672 hrs
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 19.5' collecting split-spoon samples. Installed a Type II monitoring well at 18.7'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.6 stickup	4.0
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	4"	Schedule 40 PVC, 10 slot	4.0	18.4
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	2.0 2.0	5 11		0.9	SAND, medium grained, trace gravel, trace silt (SM); grey; dense; damp		Top of Bentonite 1.0'
2		100%	13					Top of Sand 2.5'
3	S-2	1.7 2.0	8 8		0.8	SAND, coarse grained, little silt (SM); black; medium dense; moist		Top of Screen 4.0'
4		85%	8					
5	S-3	1.6 2.0	4 1		0.7	SAND, medium grained, little silt (SM); brown; loose; wet, water table at 4'		
6		80%	3 4					
7	AN							
8								
9								
10								

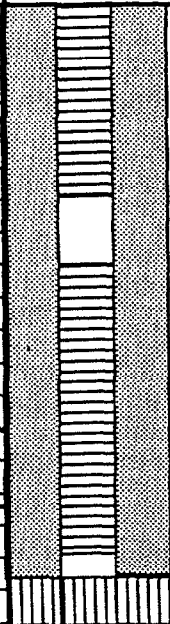
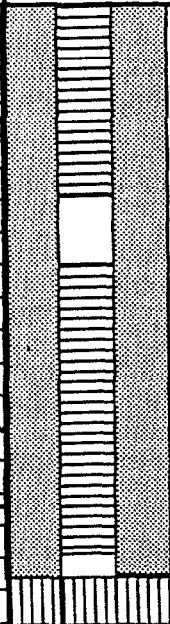
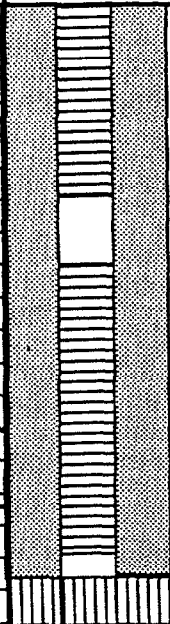
DRILLING CO.: Hardin Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: James S. Culp

BORING NO.: 6GW11

SHEET 1 (

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	S-4	0.7	5			SAND, medium grained, little silt (SM); grey; medium dense; wet			
		2.0	6						
12		35%	12						
13	AN								
14									
15									
16									
17						SANDY CLAY (SC); grey; very dense; saturated	16.5'	15.9	
18	S-5	2.0	10			SAND, medium grained, little silt (SM); brown; very dense; wet		17.6'	
		2.0	15						
19		100%	22						
20						End of Boring at 19.5'	19.5'	12.9	
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

Baker

Baker Environmental, Inc.

TEST BORING A

CLEJ-01272-3.13-08/20/93

RD

PROJECT: Site 6, Lot 201 S

S.O. NO.: 19133

COORDINATES: EAST: 2502207.4

ELEVATION: SURFACE: 17.0

BORING NO.: 6GW12

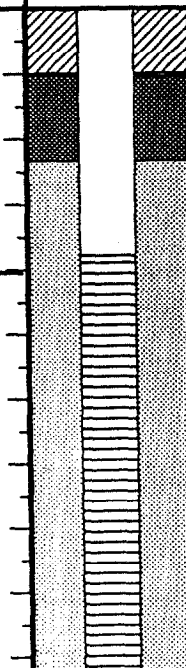
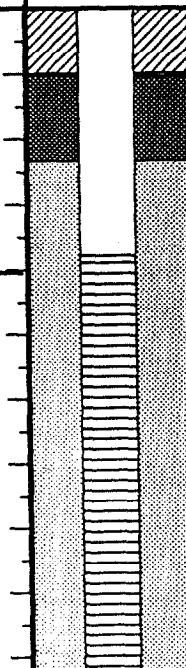
NORTH: 344288.1

TOP OF PVC CASING: 18.29

RIG: B-53									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID 8 1/4" ID		9-24-92	18'		4'	
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 18.5' collecting split-spoon samples. Installed a Type II monitoring well at 18'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	1.3 stickup	3.8
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	3.8	17.6
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.25 2.0	2 3 3			SAND, fine, and SILT(SM), organics; light gray; loose; damp	 2.5' of stick-up Cement Top of Bentonite 1.0' Top of Sand 2.4' No. 2 Sand 2.0' Top of Screen 3.8'	
2		63%	3					
3	S-2	1.62 2.0	3 7 12			SAND, fine, and SILT(SM); light gray; medium dense; moist 5.5 sand, fine, little silt Water		
4		82%	14					
5	S-3	1.16 2.0	8 13 18			SAND, fine, trace silt (SM); white; wet		
6		58%	25					
7	AN						 Water table at TOC on 9-26-92	
8								
9								
10								

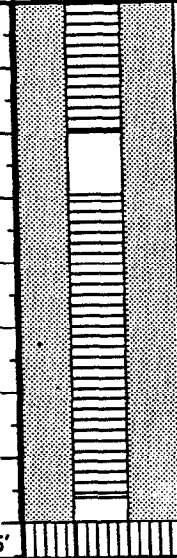
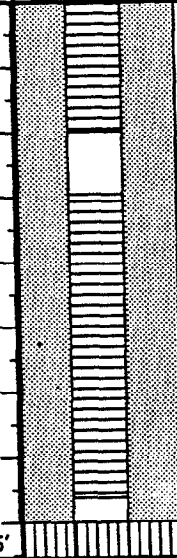
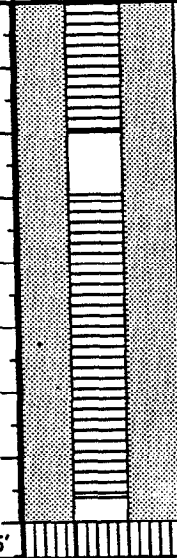
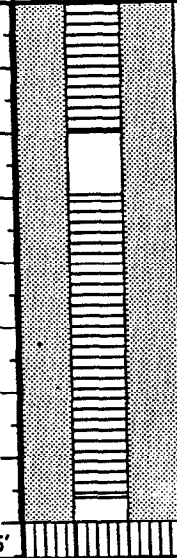
DRILLING CO.: Hardin Huber, Inc.

DRILLER: Tom Cramer

BAKER REP.: Kenneth A. Tua

BORING NO.: 6GW12

SHEET 1 C

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample				PID = Photoionization Detector					
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	S-4	1.08	6			SAND, fine, and SILT (SM); light gray; loose; wet			
12		54%	4						
13	AN					SAND, fine, some silt, little clay (SM); gray/ green; medium dense; wet			
14									
15									
16									
17	S-5	1.66	6			SAND, fine, some silt, little clay (SM); gray/ green; medium dense; wet			
18		2.0	8						
18		83%	7						
18	AN		9						
19						End of Boring at 18.5'		Bottom of Well at 18.0'	
20								End of Boring at 18.5'	
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									



TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Lot 201

S.O. NO.: 19133

COORDINATES: EAST: 2502444.9

ELEVATION: SURFACE: 18.1

NORTH: 344291.7

TOP OF PVC CASING: 20.10

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID 8 1/4" ID		9-24-92	18'		4'	
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 18.5' collecting split-spoon samples. Installed a Type II monitoring well at 18'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.0 stickup	3.8
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core					
D = Denison	P = Piston	Well Screen	4"	Schedule 40 PVC, 10 slot	3.8	17.6
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	.91 2.0	6			SAND, fine, little silt (SM), organics; light gray; medium dense; dry	2.0' of stick-up Cement Top of Bentonite 1.0' Top of Sand 2.0' No. 2 Sand Pack Top of Screen 3.8'	
2		45%	5					
3	S-2	1.66 2.0	2			SAND, fine, organics; (SM) black; loose; moist	Top of Sand 2.0' No. 2 Sand Pack	
4		83%	4					
5	S-3	1.33 2.0	4			Water	Top of Screen 3.8' Water table at TOC on 9-26-92	
6		67%	11					
7	AN					SAND, fine, some silt (SM); light brown; medium dense; wet	Water table at TOC on 9-26-92	
8								
9								
10								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Tom Cramer

BAKER REP.: Kenneth A. Tua

BORING NO.: 6GW13

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample						PID = Photoionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
11	S-4	2.0	4			SAND, fine, some silt (SM); gray/ green; loose; wet		
		2.0	5					
12		100%	4					
13	AN							
14								
15								
16	S-5	2.0	1			SAND, fine, little silt, trace clay (SM); gray/ green; loose; wet		
17		2.0	1					
18		100%	1					
19	AN					End of Boring at 18.5'	Bottom of screen at 17.6'	
20							Bottom of Well at 18.0'	
21							End of Boring at 18.5'	
22								
23								
24								
25								
26								
27								
28								
29								
30								

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Storage I

CLEJ-01272-3.13-08/20/93

CTO NO.: 19133

COORDINATES: EAST: 2502823.2

NORTH: 344497.9

ELEVATION: SURFACE: 25.5

TOP OF PVC CASING: 23.49

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
	1 3/8" ID		3 1/4" ID 8 1/4" ID		10/6/92	0.0 - 24.0	Cool, Sunny		
LENGTH	2.0'		5.0'		10/9/92	--	Cloudy, Rainy, 70°s	10.91	72 hrs.
TYPE	STD		HSA		10/26/92	--	Cloudy, 70°s	11.50	480 hrs.
HAMMER WT.	140#				11/7/92	--	Cloudy, 50°s	11.90	792 hrs.
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 23.0'. Type II Monitoring Well installed to 22.0'

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	3.0 Stickup	7.5
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	7.5	21.7
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID ppm	Visual Description	Well Installation Detail	Elevation
1		1.3 2	3			GRASS and organic material to 6"		25
2	S-1	65%	4		1	SAND, medium to fine grained; trace silt (SM); grey; loose; damp		
3		1.5 2	6				Top of Bentonite 3.25'	
4	S-2	75%	4		8	SAND, medium to fine grained; trace silt (SM); light grey; loose; damp		
5		1.2 2	2				Top of Sand 5.0'	
6	S-3	60%	5		7	SAND, medium to fine grained; trace silt (SM); yellow white; medium dense; damp		
7		1.6 2	7				Top of Screen 7.5'	
8	S-4	80%	8		1	SAND, medium to fine grained; trace silt (SM); white; medium dense; wet. Water Table at 8.0'		
9		1.6 2	17					
10	S-5	80%	18		0	SAND, medium to fine grained; trace silt (SM); white; dense; wet		

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: James S. Culp

DRILLER: Chad Chism

BORING NO.: 6GW14

SHEET 1 OF 10

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Storage Lot
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11						Continued from Sheet 1			
12									
13	A/N								
14		2.0	5			SAND, medium to fine grained; trace silt(SM); white medium dense; wet			
15	S-6	45%	11 9 7						
16									
17	A/N								
18									
19									
20									
21		2.0	12			SAND, medium to fine grained; trace silt (SM); white; loose; wet		3.5	
22	S-7	100%	5 3 6						
23						End of Boring at 23.0'			
24									
25									
26									
27									
28									
29									
30									

DRILLING CO.: Hardin-Huber, Inc.
 DRILLER: Chad Chism

BAKER REP.: James S. Culp
 BORING NO.: 6GW14

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage I

S.O. NO.: 19133

COORDINATES: EAST: 2503135.9

ELEVATION: SURFACE: 26.1

NORTH: 347699.8

TOP OF PVC CASING: 29.07

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		10-10-92	0-19	Cool, muggy		
LENGTH	2'		5'		10-12-92	--	Sunny, 70°s	10.79	48 hrs.
TYPE	STD		HSA		10-26-92	--	Cloudy, 70°s	11.09	384 hrs
HAMMER WT.	140#				11-07-92	--	Cloudy, 50°s	11.27	720 hrs
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 20.5' with hollow-stem augers; Installed a Type II monitoring well at 20'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.9 stickup	5.4
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	4"	Schedule 40 PVC, 10 slot	5.4	19.7
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevatic
1	S-1	1.6 2.0	2 4 7			SILT, some sand, medium grained (ML/SM); brown; stiff; damp		24.9
2		80%	7		1.2			
3	S-2	1.8 2.0	4 3 1			SAND, fine grained, little silt; grey; loose; damp		
4		90%	4					
5	S-3	1.4 2.0	6 8 7			SAND, medium to fine grained, little silt (SM); white; medium dense; moist to wet, water table at 7'		
6		70%	6					
7	S-4	1.8 2.0	3 7 8					
8		90%	10					
9								
10								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: James S. Culp

BORING NO.: 6GW15

SHEET 1 C

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	AN								
12						SAND, fine grained, little silt (SM); grey; loose; wet		12.5'	13.6
13	S-5	2.0 2.0	WOH 2 4 5			SILT, trace clay, trace sand (ML); grey; medium stiff; wet		13.1'	13.0
14		100%				SAND, fine grained, little silt (SM); grey; loose; wet			
15									
16	AN								
17									
18							Bottom of screen at 19.7'		
19	S-6	2.0 2.0	5 7 5 12			SAND, medium grained, little silt (SM); grey; medium dense; wet	Bottom of Well at 20.0'		
20		100%					End of Boring at 20.5'		
21						End of Boring at 20.5'		5.6	
22									
23									
24									
25									
26									
27									
28									
29									
30									

Baker

Baker Environmental, Inc.

TEST BORING

CLEJ-01272-3.13-08/20/93

RE

PROJECT: Site 6, Storage

S.O. NO.: 19133

COORDINATES: EAST: 2502472.2

ELEVATION: SURFACE: 24.9

BORING NO.: 6GW16

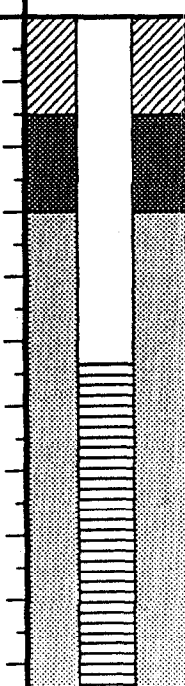
NORTH: 346417.1

TOP OF PVC CASING: 27.63

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID 8 1/4" ID		10-11-92	0 - 20	Cool, humid		
LENGTH	2'		5'		10-12-92	--	Sunny, 70°s	7.35	24 hrs
TYPE	STD		HSA		10-26-92	--	Cloudy, 70°s	8.05	360 hr
HAMMER WT.	140#				11-7-92	--	Cloudy, 50°s	8.48	576 hr
FALL	30"								
STICK UP									

REMARKS:

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.5	5.4
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	5.4	19.8
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.6 2.0	2 3 4			SAND, medium to fine grained, little silt(SM); brown; loose; damp		
2		80%	7					
3	S-2	2.0 2.0	7 8 9			SAND, medium to fine grained, little silt(SM); brown; medium dense; damp		
4		100%	9					
5	S-3	1.7 2.0	7 8 10			SAND, medium to fine grained, little silt(SM); brown; medium dense; moist		
6		85%	12					
7	S-4	1.5 2.0	7 11 10			SAND, medium to fine grained, little silt(SM); white; medium dense; wet, groundwater encountered at 6.0'		
8		75%	12					
9	A-N							
10								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: James S. Culp

BORING NO.: 6GW16

SHEET 1 C

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	A-N					SAND, fine grained, little silt(SM); white; medium dense, wet			
12									
13	S-5	2.0 2.0 100%	5 13 14 16						
14									
15									
16	A-N								
17									
18									
19						SAND, fine grained, little silt(SM); white; medium dense, wet			
20	S-6	2.0 2.0 100%	11 9 9 9						
21						End of Boring at 20.0'			
22									
23									
24									
25									
26									
27									
28									
29									
30									

20.0'

Bottom of screen at 19.8'
Bottom of Well at 20.0'
End of Boring at 20.5'

4.9

Baker

Baker Environmental, Inc.

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage 1

CTO NO.: 19133

COORDINATES: EAST: 2503149.0

NORTH: 344918.9

ELEVATION: SURFACE: 25.7

TOP OF PVC CASING: 28.10

RIG: ATV Mobile B-53					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
1 3/8" ID			3 1/4" ID 8 1/4" ID		9/25/92	18.5	Overcast, 70°s		
LENGTH	2.0'		5.0'		9/30/92		Sunny, 70°s	7.82	120 hrs
TYPE	STD		HSA		10/10/92		Sunny, 70°s	7.52	360 hrs
HAMMER WT.	140#				10/26/92		Cloudy, 70°s	8.18	744 hrs
FALL	30"				11/7/92		Cloudy, 50°s	8.64	1032 hrs
STICK UP									

REMARKS: Adv. boring to 18.5' taking contin. split spoon samples to the water table, then at 5.0' intervals. Type II Monitoring Well installed to 17.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	3.0' stickup	2.3
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	2.3	17.1
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.33	2			SAND, fine grained, little silt (SM); grey; dry		Top of Bentonite 0.5'
2		2.0	2					Top of Sand 1.5'
2		65%	3			SILT and FINE SAND (SM); black grey to black brown; medium stiff	Top of Screen 2.3'	
3	S-2	1.5	3		0	SAND, fine little silt (SM); light brown to light grey; medium dense; damp		Sand pack No. 2 silica sand
4		2.0	4					
4		75%	6					Water at 4.75'
5	S-3	1.83	8		0	SILT and SAND; fine light grey; very stiff; moist wet		Measured water level @ 8.18' TOC on 10-26-92
6		2.0	9					
6		92%	10					
7								
8	A-N							
9								
10								

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: D. J. Martin

DRILLER: Chad Chism

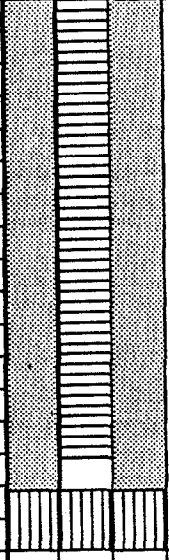
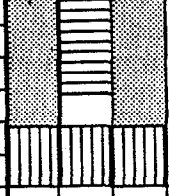
BORING NO.: 6GW17

SHEET 1 OF 1

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Storage Lot
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						FID = Flamionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	S-4	1.67	11			Continued from Sheet 1 SAND, fine little silt (SM); light grey to buff; medium dense; wet			
12		2.0	12						
13		84%	10						
14			12						
15	A-N								
16	S-5	1.5	10			SAND, fine little silt (SM); buff; medium dense; wet two 1" lenses of silt and fine sand at 16.5' and 17'		End of screen at 17.1'	
17		2.0	11						
18		75%	13						
18.5	A/N					End of Boring at 18.5'	Well Depth at 17.6'	End Boring at 18.5'	
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

DRILLING CO.: Hardin-Huber, Inc.
 DRILLER: Chad Chism

BAKER REP.: D. J. Martin
 BORING NO.: 6GW17



TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage L

CTO NO.: 19133

COORDINATES: EAST: 2503287.7

NORTH: 345650.0

ELEVATION: SURFACE: 26.5

TOP OF PVC CASING: 29.70

RIG: ATV Mobile B-53					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
1 3/8" ID			3 1/4" ID 8 1/4" ID		9/25/92	19.5	Overcast, 70°s		
LENGTH	2.0'		5.0'		9/30/92		Sunny, 70°s	8.58	120 hrs.
TYPE	STD		HSA		10/10/92		Sunny, 70°s	8.34	2640 hrs
HAMMER WT.	140#				10/26/92		Cloudy, 70°s	7.99	744 hrs
FALL	30"				11/7/92		Cloudy, 50°s	9.58	1032 hrs
STICK UP									

REMARKS: Adv. boring to 19.5' taking contin. split spoon samples to the water table, then at .5.0' intervals. Type II Monitoring Well installed to 18.5

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	1.9' stickup	4.3
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core					
D = Denison	P = Piston	Well Screen	4"	Schedule 40 PVC, 10 slot	4.3	18.1
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.58 2.0	2			SAND, fine grained, little silt (SM); light grey; medium dense; dry	Cement/ Bentonite to surface	25.1'
2		79%	4			SILT, some fine sand (ML); brown; stiff; damp	Top of Bentonite 1.0'	24.0'
3	S-2	1.5 2.0	7		0	SAND, little silt (SM); light brown; medium dense	Top of Sand 2.0'	
4		75%	8				No. 2 silica sand	
5	S-3	1.83 2.0	7			SAND, fine grained, little silt; light grey; medium dense; moist, wet	Top of Screen 3.9'	
6		92%	8				Water at 5.0'	
7	S-4	1.25 2.0	12		0	SAND, fine little silt (SM); light grey; medium dense		
8		63%	9				Water table measured @ 7.99' TOC on 10-26-92	
9	A-N							
10								

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.
DRILLER: Chad Chism

BAKER REP.: D. J. Martin
BORING NO.: 6GW18

SHEET 1 O

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Storage Lot
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')					
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)					
R = Air Rotary		C = Core		Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)					
D = Denison		P = Piston		Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis					
N = No Sample						FID = Flamionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation	
11						Continued from Sheet 1			
12	A-N					SAND, fine grained, little silt (SM); light yellow grey; loose; wet			
13		1.5 2.0	3 4 4 5						
14	S-5	75%							
15									
16	A-N					SAND, fine grained, little silt (SM); beige; medium dense; wet			
17		2.0 2.0	4 8 13 10						
18	S-6	100%							
19	A-N					End of Boring at 19.5'		7.0'	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

Baker

Baker Environmental, Inc.

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage I

CTO NO.: 19133

COORDINATES: EAST: 2502961.2

NORTH: 346211.7

ELEVATION: SURFACE: 25.2

TOP OF PVC CASING: 27.95

RIG: <u>ATV Mobile B-53</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
	1 3/8" ID		3 1/4" ID 8 1/4" ID		10/6/92	0.0-20.0	Cool, Sunny		
LENGTH	2.0'		5.0'		10/10/92	--	Sunny, 70°s	6.74	96 hrs.
TYPE	STD		HSA		10/26/92	--	Cloudy, 70°s	7.49	480 hrs
HAMMER WT.	140#				11/7/92	--	Cloudy, 50°s	7.90	768 hrs
FALL	30"					--			
STICK UP									

REMARKS: Advanced borehole to 20' with 3 1/4" HSA; overdrilled borehole 8.25" HSA to 20.5', a Type II monitoring well was installed.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.7	5.2
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	4"	Schedule 40 PVC	5.2	19.2
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.6 2.0	2 3		0	SAND, medium to fine grained; trace silt (SM); grey; loose; damp, trace organic		
2		80%	9					
3	S-2	1.7 2.0	6 10		0	SAND, medium to fine grained; trace silt (SM); grey; medium dense; damp		
4		85%	12					
5	S-3	1.4 2.0	7 11		0	SAND, medium to fine grained; trace silt (SM); brown; medium dense; moist, trace organics		
6		70%	15					
7	S-4	1.5 2.0	11 13		1	SAND, medium to fine grained; trace silt (SM); brown; medium dense; wet, trace organics		
8		75%	16					
9	A-N							
10								

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: James S. Culp

DRILLER: Chad Chism

BORING NO.: 6GW19

SHEET 1 OF 10

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Storage Lot
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample						FID = Flameionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation
11	A-N					Continued from Sheet 1		
12		2.0	4			SAND, medium to fine grained; trace silt (SM); white; medium dense; wet		
13	S-5	100%	11					
14								
15								
16								
17	A-N							
18								
19		2.0	10			SAND, medium to fine grained, trace silt (SM); grey; medium dense; wet		Bottom of screen at 19.3'
20	S-6	100%	12		0			Bottom of Well at 20.0'
						End of Boring at 20.5'	Boring Depth at 20.5'	5.2
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

TEST BORING /

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage

CTO NO.: 19133

COORDINATES: EAST: 2502084.6

ELEVATION: SURFACE: 22.5

BORING NO.: 6GW20

NORTH: 346424.3

TOP OF PVC CASING: 25.08

RIG: ATV Mobile B-53					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
1 3/8" ID			3 1/4" ID 8 1/4" ID		10/8/92	0.0-24.0	Sunny, 70°s		
LENGTH	2.0'		5.0'		10/10/92		Sunny, 70°s	5.45	48 hr
TYPE	STD		HSA		10/26/92		Cloudy, 70°s	6.28	432 hr
HAMMER WT.	140#				11/7/92		Cloudy, 50°s	6.67	720 hr
FALL	30"								
STICK UP									

REMARKS: Adv. borehole to 24' w/3 1/4" ID HSA; borehole overdrill. 5'-flow. sands; overdrilled borehole 8 1/4" ID HSA. Type II Monitor. Well inst. to 19

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.25 stick up	4.8
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	4.8	19.4
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevat
1		1.1	1			Grass and organic material to 6"; brown-grey; dry	Stick up 2.25'	22.0
2	S-1	55%	2 3 4		1.6	SAND, fine grained; little organic material, trace silt (SM); brown-grey; loose; dry	Top of Bentonite 1.1'	21.0
3		1.6	7 9			silty-organics (ML); brown to dark brown; dry	Top of Sand 2.1'	20.5 20.0
4	S-2	80%	11 13		1.2	SAND, fine grained, trace silt, trace organics (SM); brown to dark brown; medium dense; dry to damp	Measured water table at 5.45' TOC on 10/10/92 Water table at 4.0-4.5'	
5		2.0	13 9				Top of Screen 4.8'	
6	S-3	100%	9 18		1	SAND, fine grained, trace silt (SM); grey-brown; medium dense; wet		
7								
8	A-N							
9								
10								

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: Richard E. Bonelli

BORING NO.: 6GW20

SHEET 1



TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage Lot

S.O. NO.: 19133

BORING NO.: 6GW20

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	A-N					Continued from Sheet 1	<p>Sand pack No. 2 sand</p> <p>Bottom of screen at 19.4'</p> <p>Bottom of Well at 19.7'</p> <p>Borehole advance to 24.0' because of flowing sands</p>		
12	S-4	1.4	5		1.0	SAND, fine grained, trace to little silt (SM); grey-brown to light greenish white; medium dense; wet			
13		70%	8						
14						SAND, fine grained; trace to little silt (SM); light greenish white; medium dense; wet			
15									
16						SAND, fine grained; trace to little silt (SM); light greenish white; medium dense; wet			
17									
18	S-5	1.6	9		1.0	SAND, fine grained; trace to little silt (SM); light greenish white; medium dense; wet			
19		80%	11						
20						End of Boring at 24.0'			
21									
22						Overdrilled borehole because of flowing sand conditions			
23									
24						Overdrilled borehole because of flowing sand conditions			
25									
26						Overdrilled borehole because of flowing sand conditions			
27									
28						Overdrilled borehole because of flowing sand conditions			
29									
30						Overdrilled borehole because of flowing sand conditions	-1.5		

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: Richard E. Bonelli

BORING NO.: 6GW20

SHEET 2 OF



TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage I

CTO NO.: 19133

COORDINATES: EAST: 2501666.8

NORTH: 346734.8

ELEVATION: SURFACE: 27.9

TOP OF PVC CASING: 30.30

RIG:		Mobile B-61			DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID 8 1/4" ID		9/24/92	24	Clear, 75°		
LENGTH	2.0'		5.0'		9/25/92		Sunny, 70°s	12.70	24 hrs
TYPE	STD		HSA		9/30/92		Sunny, 70°s	12.82	144 hrs
HAMMER WT.	140#				10/10/92		Sunny, 70°s	12.94	384 hrs
FALL	30"				10/26/92		Cloudy, 70°s	13.30	768 hrs
STICK UP					11/7/92		Cloudy, 50°s	13.63	1056 hrs

REMARKS: Advanced borehole to 24' taking contin. split spoon samples to the water table, then at 5' intervals. Monitoring well installed @ 22.5'

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.4 stick up	7.5
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core					
D = Denison	P = Piston	Well Screen	4"	Schedule 40 PVC 10 slot	7.5	22
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.33	3			SILT AND SAND (SM); black grey; dry		
2		67%	2					
3	S-2	1.67	3			SAND, fine grained (SM); light brown; loose; damp		
4		84%	2					
5	S-3	1.5	2			SAND, fine grained (SM); light brown; loose; damp		
6		75%	4					
7	S-4	1.5	3			(SM); light brown; medium dense; damp		
8		75%	10					
9	S-5	1.67	6			SILT AND SAND, fine grained (ML); brown, little silt; medium; nonplastic		19.5
10		84%	11		0			

Match to Sheet 2

Top of Bentonite 4.5'
Top of Sand 6.0' No. 2 silica sand
Top of Screen 8.0'
Measured water table at 13.30' TOC on 10/26/92

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: D. J. Martin

DRILLER: Chad Chism

BORING NO.: 6GW21

SHEET 1 C

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Storage Lot
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')					
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)					
R = Air Rotary		C = Core		Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)					
D = Denison		P = Piston		Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis					
N = No Sample				FID = Flameionization Detector					
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation	
Continued from Sheet 1									
11	S-6	1.0	7			SAND, fine grained, little silt (SM); buff; medium dense; moist, wet		Water at 11.0'	
12		50%	11						
13	A-N					SAND, fine grained little silt (SM); buff; medium dense; wet			
14									
15	S-7	2.0	7		0	SAND, fine to medium grained sand trace clay, coarse sand (SC); buff; medium dense; wet			
16		100%	11						
17	A-N					SAND, fine to medium grained sand trace clay, coarse sand (SC); buff; medium dense; wet			
18									
19									
20									
21									
22							Bottom of screen at 22.0'		
23	S-8	2.0	9			End of Boring at 24.0'		Bottom of Well at 22.5'	
24		100%	15						
25									
26									
27									
28									
29									
30									

Baker

Baker Environmental, Inc.

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage L

CTO NO.: 19133

COORDINATES: EAST: 2502408.8

NORTH: 345918.6

ELEVATION: SURFACE: 24.5

TOP OF PVC CASING: 24.13

RIG: Mobile B-61					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
1 3/8" ID			3 1/4" ID 8 1/4" ID		9/24/92	20	Clear, 75°		
LENGTH	2.0'		5.0'		9/30/92		Sunny, 70°s	6.32	144 hrs.
TYPE	STD		HSA		10/13/92		Sunny, 70°s	5.38	456 hrs.
HAMMER WT.	140#				10/26/92		Cloudy, 70°s	5.84	768 hrs.
FALL	30"				11/7/92		Cloudy, 50°s	N/A	N/A
STICK UP									

REMARKS: Advanced borehole to 20' taking contin. split spoon samples to the water table, then at 5' intervals. Monitoring well installed @ 19.5'

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	Flush Mount	4.7
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core					
D = Denison	P = Piston	Well Screen	4"	Schedule 40 PVC 10 slot	4.7	19.0
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation
1		1.0	13			SAND, fine to medium grained, little silt, trace fine gravel (SM); brown to black grey to grey; medium dense; dry	Cement Top of Bentonite 2.0'	
2	S-1	50%	13					Top of Sand 3.0'
3		1.58	6			SAND, fine grained, little silt (SM); light brown; medium dense; damp	Top of Screen 4.5'	
4	S-2	79%	10					Sand pack No. 2 silica sand
5		1.5	5		0	SAND, fine grained, AND SILT (SM); light grey; medium dense; moist	Water at 7.0'	
6	S-3	75%	7					Measured water table at 5.84' TOC on 10/26/92
7		1.5	7			SAND, fine grained, some silt (SM) fine grained sand, little silt; light grey, buff; medium dense; moist, wet		
8	S-4	75%	22					
9		1.67	6		0	fine grained sand, little silt (SM); buff; dense; wet		
10	S-5	84%	26					

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: D. J. Martin

DRILLER: Chad Chism

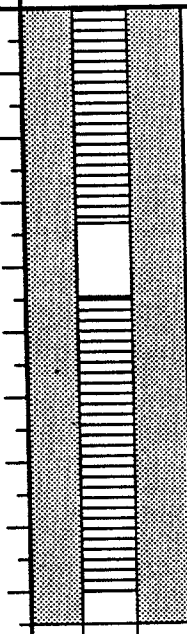
BORING NO.: 6GW22

SHEET 1 OF

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Storage Lot
S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						FID = Flameionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	FID (ppm)	Visual Description	Well Installation Detail	Elevation	
11						Continued from Sheet 1		4.5	
12	A-N								
13									
14	14.0								
15	S-6	2.0	4	7					
16	16.0	100%	14			SAND, fine grained, little silt (SM); light grey; medium dense; wet			
17									
18	A-N								
19		2.0	8	8		SAND, fine grained, little silt (SM); light grey; medium dense; wet			
20	20.0	100%	12			End of Boring at 20.0'	Bottom of screen at 19.0' Bottom of Well at 19.5'		
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

Baker

Baker Environmental, Inc.

TEST BORING A

CLEJ-01272-3.13-08/20/93

RE

PROJECT: Site 6, Storage L

S.O. NO.: 19133

COORDINATES: EAST: 2502652.4

ELEVATION: SURFACE: 24.5

BORING NO.: 6GW23

NORTH: 346870.5

TOP OF PVC CASING: 26.96

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 7/8"		3 1/4" ID 8 1/4" ID		10-12-92	0-23	Cool, wet		
LENGTH	2'		5'		10-13-92	--	Sunny, 70°s	7.07	24 hrs
TYPE	STD		HSA		10-26-92	--	Cloudy, 70°s	7.56	312 hrs
HAMMER WT.	140#				11-07-92	--	Cloudy, 50°s	7.93	624 hrs
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 23.5' taking continuous split spoon samples to the water table, then at 5' intervals. Type II monitoring well installed at 23'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.5 stickup	8.4
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	8.4	22.7
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.7 2.0	2			SAND, fine grained, little silt (SM); grey brown; loose; damp		
2		85%	4					
3	S-2	1.6 2.0	4			SAND, medium grained, little silt (SM); grey; medium dense; moist	Top of Bentonite 3.0'	
4		80%	7					
5	S-3	1.6 2.0	4			SAND, medium grained, little silt (SM); grey; medium dense; moist	Top of Sand 5.0'	
6		80%	5					
7	S-4	2.0 2.0	6			SAND, medium to fine grained, little silt (SM); grey; medium dense; wet, groundwater at 7.0'	Top of Screen 8.4'	
8		100%	3					
9	S-5	2.0 2.0	5			SAND, medium to fine grained, little silt (SM); grey; medium dense; wet	Top of Screen 8.4'	
10		100%	9					

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: James S. Culp

BORING NO.: 6GW23

SHEET 1 OF

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	AN					SAND, medium to fine grained, little silt (SM); grey; loose; wet			
12									
13	S-6	2.0 2.0 100%	2 3 4 8						
14						SAND, medium to fine grained, little silt (SM); grey; loose; wet			
15									
16									
17	AN								
18									
19									
20	S-7	2.0 2.0 100%	2 3 3 2						
21									
22	AN								
23						End of Boring at 23.5'	Bottom of screen at 22.7' Bottom of Well at 23.0' End of Boring at 23.5'	1.0	
24									
25									
26									
27									
28									
29									
30									

PROJECT: Site 6, Storage

S.O. NO.: 19133

COORDINATES: EAST: 2503376.6

ELEVATION: SURFACE: 32.1

BORING NO.: 6GW25

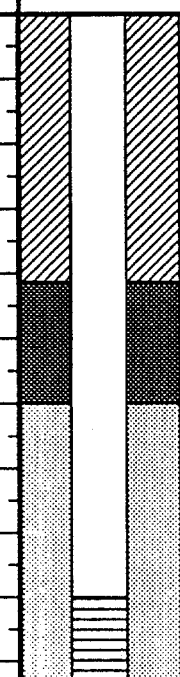
NORTH: 346718.9

TOP OF PVC CASING: 34.30

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID 8 1/4" ID		10-07-92	0 - 24	Ptly cldy, cool		
LENGTH	2'		5'		10-26-92	--	Cloudy, 70's	11.88	456 hr
TYPE	STD		HSA		11-7-92	--	Cloudy, 50's	12.24	744 hr
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS:

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.5	8.9
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	8.9	23.2
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.4 2.0	2			SAND, medium to fine grained, trace silt(SM); brown; loose; damp, trace roots		
2		70%	4					
3	S-2	1.7 2.0	5			SAND, medium to fine grained, little silt(SM); brown; medium dense; damp	Top of Bentonite 4.2'	
4		85%	8					
5	S-3	1.5 2.0	8			SAND, medium to fine grained, little silt(SM); brown; medium dense; damp	Top of Sand 6.0'	
6		75%	18					
7	S-4	1.7 2.0	9			SAND, medium to fine grained, trace silt(SM); white; medium dense; damp	Top of Screen 9.0'	
8		85%	16					
9	S-5	1.6 2.0	10			SAND, medium to fine grained, little silt(SM); white; medium dense; damp		
10		80%	14					

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	S-6	1.3	9			SAND, medium to fine grained, trace silt(SM); white; medium dense, wet, water table at 10'			
		2.0	11						
12		65%	13						
			15						
13	A-N								
14									
15									
16									
17	S-7	2.0	15			SAND, medium to fine grained, trace silt(SM); white; dense, wet			
		2.0	20						
18		100%	26						
			30						
19	A-N								
20									
21									
22									
23	S-8	2.0	4			SAND, medium to fine grained, trace silt(SM); white to tan; medium dense, wet			
		2.0	5						
24		100%	7						
			8						
24						End of Boring at 24.0'	24.0'		
25									
26									
27									
28									
29									
30									

Bottom of screen at 23.2'
Bottom of Well at 23.5'
End of Boring at 24.0'

8.1

Baker

Baker Environmental, Inc.

TEST BORING A

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Storage L

S.O. NO.: 19133

COORDINATES: EAST: 2501797.0

ELEVATION: SURFACE: 20.9

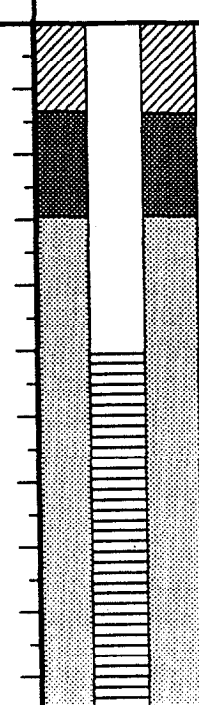
NORTH: 347577.1

TOP OF PVC CASING: 23.66

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		10-09-92	20	Rain		
LENGTH	2'		5'		10-11-92	--	Sunny, 70°s	9.94	24 hrs.
TYPE	STD		HSA		10-26-92	--	Cloudy, 70°s	10.28	408 hrs.
HAMMER WT.	140#				11-07-92	--	Cloudy, 50°s	10.53	696 hrs.
FALL	30"								
STICK UP									

REMARKS: Boring advanced to 21'. Type II monitoring well installed at 20'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.7 stickup	5.0
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	5.0	19.7
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.66 2.0 83%	3 1 4 8		.9	ORGANICS, sand-fine and silt (SM); black, lt. brown; very loose; dry, mottled orange		
2							Top of Bentonite 1.4'	
3	S-2	1.83 2.0 92%	10 9 11 9		1.0	SAND, fine and silt (SM); tan; medium dense; dry	Top of Sand 3.0'	
4								
5	S-3	1.75 2.0 88%	10 9 8 7		.9	SAND, fine and silt, trace clay, (SM); tan; medium dense; damp	Top of Screen 5.0'	
6								
7	S-4	1.58 2.0 79%	16 9 15 16		.8	SAND, fine some silt; tan to white; medium dense; damp		
8								
9	S-5	1.5 2.0 75%	4 9 10 11		1.0	SAND, fine and silt (SM); white; medium dense; wet, water at 8'		
10								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: Kenneth A. Tua

BORING NO.: 6QW26

SHEET 1 OF

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	A-N								
12									
13									
14									
15									
16	S-6	2.0 2.0 100%	9 10 16 17			SAND, fine little silt with bands sand fine and clay (SM); orange gray; medium dense; wet			
17									
18	A-N								
19						SAND, fine trace silt; orange(SM); medium dense; wet	Bottom of screen at 19.7'		
20	S-7	2.0 2.0 100%	10 11 12 9					Bottom of Well at 20.0'	
21						21.0'	End of Boring at 20.0'		
22						End of Boring at 21.0'		-0.1	
23									
24									
25									
26									
27									
28									
29									
30									



TEST BORING /

CLEJ-01272-3.13-08/20/93

RD

PROJECT: Site 6, Wooded

S.O. NO.: 19133

BORING NO.: 6GW28S

COORDINATES: EAST: 2502820.2

NORTH: 348555.9

ELEVATION: SURFACE: 27.6

TOP OF PVC CASING: 30.20

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
1 3/8"			3 1/4" ID 8 1/4" ID		10-09-92	0-32	Warm muggy		
LENGTH	2'		5'		10-11-92	--	Sunny, 70°s	21.34	24 hrs
TYPE	STD		HSA		10-26-92	--	Cloudy, 70°s	21.63	408 hrs
HAMMER WT.	140#				11-07-92	--	Cloudy, 50°s	21.84	696 hrs
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 32.5' taking continuous split spoon samples to the water table, then at 5' intervals. Type II monitoring well installed at 32'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.5 stickup	17.5
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	17.5	37.5
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.5 2.0	1 2			SAND, fine grained, little silt (SM); grey; loose; damp		24.6
2		75%	1					
3	S-2	1.4 2.0	2 4			SAND, fine grained, little silt (SM); grey; loose; damp	3.0'	24.6
4		70%	7 9					
5	S-3	1.4 2.0	6 8			SILT, trace sand (ML); brown; very stiff; damp	6.6'	21.0
6		70%	10 10					
7	S-4	1.7 2.0	7 5			SAND, medium to fine grained, little silt (SM); brown; medium dense; damp	3.0'	21.0
8		65%	8					
9	S-5	1.2 2.0	6 7			SAND, medium to fine grained, little silt (SM); white to tan; medium dense; moist, iron staining	3.0'	21.0
10		60%	9 8					

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: James S. Culp

DRILLER: Chad Chism

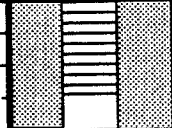
BORING NO.: 6GW28S

SHEET 1 OF

PROJECT: Site 6, Wooded Ar
 S.O. NO.: 19133

Baker Environmental, Inc.

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	S-6	1.8	5			SAND, medium to fine grained, little silt (SM); white; medium dense; moist, iron staining		15.6	
12		2.0	14						
13	S-7	90%	13			SAND, medium to fine grained, little silt (SM); grey; medium dense; moist, iron staining		12.4	
14		1.8	7						
15	S-8	2.0	10			SAND, medium grained, little clay (SC); grey; dense; moist, iron staining		12.4	
16		2.0	14						
17	S-9	100%	22			SAND, medium grained, little silt (SM); grey; medium dense; moist, iron staining		4.1	
18		1.8	14						
19	S-10	90%	13			SAND, medium sand, little silt (SM); grey; dense; wet, water table at 18'		4.1	
20		1.6	12						
21	A-N	2.0	14			SAND, medium grained, little clay, little silt (SM/SC); brown; loose; wet		4.1	
22		2.0	14						
23	S-11	80%	8			SAND, medium sand, little silt (SM); grey; dense; wet, water table at 18'		4.1	
24		2.0	12						
25		100%	3			SAND, medium sand, little silt (SM); grey; dense; wet, water table at 18'		4.1	
26		3							
27		100%	3			SAND, medium sand, little silt (SM); grey; dense; wet, water table at 18'		4.1	
28		4							
29									
30									

SAMPLE TYPE						DEFINITIONS				
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample						PID = Photoionization Detector				
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation	
31	S-12	2.0	5			SAND, medium grained, little silt (SM); grey; loose; wet, iron staining		Bottom of screen at 31.5'	-4.4	
32		2.0	3		32.0'					Bottom of Well at 32.0'
		100%	5							End of Boring at 32.5'
33						End of Boring at 32'				
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										
50										



TEST BORING A

CLEJ-01272-3.13-08/20/93

Baker Environmental, Inc.

PROJECT: Site 6, Wooded A

S.O. NO.: 19133

COORDINATES: EAST: 2503661.8

ELEVATION: SURFACE: 9.9

NORTH: 349477.7

TOP OF PVC CASING: 12.60

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		10-10-92	0-21	Cool, muggy		
LENGTH	2'		5'		10-26-92	--	Cloudy, 70's	6.07	384 hr
TYPE	STD		HSA		11-07-92	--	Cloudy, 50's	6.05	696 hr
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 21' with hollow-stem augers; Installed a Type II monitoring well at 20'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger					
T = Shelby Tube	W = Wash	Well Casing	4"	Schedule 40 PVC	2.7 stickup	5.3
R = Air Rotary	C = Core					
D = Denison	P = Piston	Well Screen	4"	Schedule 40 PVC, 10 slot	5.3	19.7
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.4 2.0	2 5 5		0.9	SANDY SILT (SM); brown; medium dense; damp, trace of roots		9.25
2		70%	5		2.0	SAND, medium grained little silt (SM); brown; medium dense;		7.9
3	S-2	1.5 2.0	9 6 10		0.7	SAND, fine grained, trace silt (SM); grey; medium dense; damp		6.3
4		75%	11		3.6	SILT (ML); grey; stiff; damp		5.9
5	S-3	1.5 2.0	7 10 2		0.6			
6		75%	2		4.0			
7	S-4	1.4 2.0	9 6 7		0.7	SAND, fine grained, little silt (SM); grey; medium dense; wet, water table at 7'		
8		70%	9					
9								
10								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Chad Chism

BAKER REP.: James S. Culp

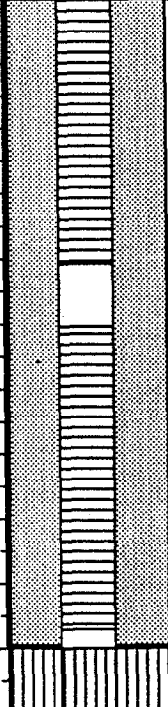
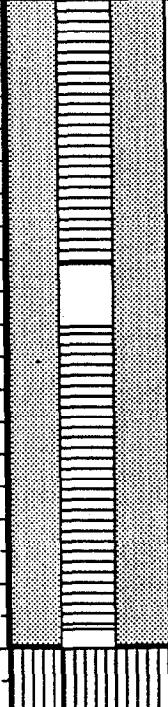
BORING NO.: 6GW30

SHEET 1 OF 1

PROJECT: Site 6, Wooded Area
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

Baker Environmental, Inc.

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample					PID = Photoionization Detector				
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11									
12	AN								
13									
14									
15	S-5	1.9 2.0	2 3			SAND, medium grained, trace silt (SM); grey; loose; wet			
16		95%	2						
17	AN								
18							Bottom of screen at 19.7'		
19							Bottom of Well at 20.0'		
20	S-6	2.0 2.0	5 7			SAND, medium grained, trace silt (SM); grey; loose; wet			
21		100%	12					21.0'	End of Boring at 21.0'
22						End of Boring at 21.0'			
23									
24									
25									
26									
27									
28									
29									
30									

E.2

Site 6 - Deep Wells

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Wooded

S.O. NO.: 19133

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: 32.8

TOP OF PVC CASING: 35.31

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIM
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		10-7-92	57	Clear and mild		
LENGTH	2.0'		5.0'		10-8-92	57 - 117	Sunny, 50°s		
TYPE	Std		HSA		10-26-92	--	Cloudy, 70°s	23.07	456 h
HAMMER WT.	140#				11-7-92	--	Cloudy, 50°s	23.32	720 h
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 16' using 3 1/4" augers. 7 7/8" mud rotary to final depth taking split spoon samples every 5'. Type II monitoring well installed to 112.5.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTO DEPT (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Sch 40 PVC	2.3 stickup	102.
T = Shelby Tube	W = Wash	Well Screen	4"	Sch 40 PVC, 10 slot	102.7	111.
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevati
1							Cement	
2							Top of Cement/bentonite mixture at 2'	
3								
4	A-N							
5								
6							Cement/bentonite mixture consisted of 5% bentonite with portland cement	
7								
8								
9								
10								

Match to Sheet 2

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Wooded Area
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
Continued from Sheet 1									
11	A-N					SAND-fine, some silt(SM); brown; medium dense; dry, mottled orange			
12								20.3'	
13	S-1	1.58 2.0 79%	6 11 11 15		0	CLAY, some sand-fine(CL); gray		19.3'	
14						SAND-fine, little silt(SM); medium dense; brown, water at 16'			
15	S-2	1.42 2.0 71%	6 8 6 7		0				
16						4" SAND-fine, trace silt; light gray; loose; wet			
17	S-3	1.33 2.0 67%	2 2 3 6		0	SAND-fine, little silt(SM); dark brown; white streaks Converted to mud rotary drilling			
18						SAND-fine, little silt(SM); dark brown; loose; wet			
19	S-4	1/2 50%	4 4 3 4		0	SILT, trace sand-fine (ML); dark brown; medium dense		Measured water level at 23.01' on 10-26-92	
20								12.5'	
21	S-5	1.33 2.0 67%	3 5 9 10		0	SAND-fine, trace silt(SM); white; wet			
22									
23	R-N								
24						2" CLAY, trace sand-fine(CL); gray; medium dense; wet			
25								7.6'	
26	S-6	1.08 2.0 54%	5 9 14 15		0	SAND-fine, trace silt(SM); brown; medium dense; mottled orange			
27									
28									
29	R-N								
30						Match to Sheet 3			

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Wooded Ar
 S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
						Continued from Sheet 2			
31	S-7	1.75 2.0 88%	5 4 4 5		0	SAND-fine, trace silt(SM); green; loose;wet			
32									
33	R-N								
34									
35									
36	S-8	1.08 2.0 54%	15 27 27 32		0	SAND-fine, trace silt(SM); gray; very dense; wet, green spots			
37									
38	R-N								
39									
40									
41	S-9	1.5 2.0 75%	7 12 11 12		0	SAND-fine, little silt(SM); light gray, green; medium dense; wet			
42									
43	R-N								
44									
45							45.0'	-12.0	
46	S-10	2.0 2.0 100%	5 12 20 22		0	SAND-fine, some silt, little clay(SM); gray; dense; wet			
47						LIMESTONE FRAGMENTS/MUD, some sand-fine, some shell fragments	46.4'	-13.0	
48									
49	R-N								
50									
						Match to Sheet 4			

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Wooded Area
 S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS				
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample						PID = Photoionization Detector				
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation	
						Continued from Sheet 3				
51	S-11	2.0	7		0	SAND-fine and SILT, some clay(SM); blue gray; medium dense; moist				
		2.0	5							
52		100%	9							
53	R-N					SAND-fine and SILT, little clay(SM); blue gray; medium dense; wet; split spoon refusal				
54										
55	S-12	2.0	16		0	LIMESTONE FRAGMENTS-white			-22.7	
		2.0	20							55.5
56		100%	50/5"							56.0
57	End of Boring at 57.0' on 10-7-92									
58	R-N									
59										
60	S-13	1.42	21		0	SAND-fine, little silt, trace limestone fragments(SM); gray; very dense; wet				
		2.0	32							
61		48								
62		29								
63	R-N					SANDY LIMESTONE FRAGMENTS, some silt; gray; very dense; wet; split spoon refusal				
64										
65	S-14		50		0				-32.7	
			5"							65.0
66										
67	R-N									
68										
69										
70										
						Match to Sheet 5				

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, Wooded Area
 S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
71	S-15	$\frac{.33}{2.0}$ 17%	$\frac{50}{5''}$		0	LIMESTONE FRAGMENTS, trace shell fragments, trace silt; gray; very dense; wet; split spoon refusal		-38.2	
72						SAND -fine, some silt(SM)			
73	R-N								
74									
75									
76	S-16	$\frac{.17}{2.0}$ 8%	$\frac{50}{4''}$		0	SAND -fine, some silt, trace shell fragments(SM); gray; very dense; wet; split spoon refusal			
77									
78	R-N								
79									
80									
81	S-17	$\frac{.42}{2.0}$ 21%	$\frac{100}{5''}$		0	SAND -fine, little silt, trace shell fragments(SM); gray; very dense; wet; split spoon refusal			
82									
83	R-N								
84									
85									
86	S-18	$\frac{1.5}{2.0}$ 75%	$\frac{28}{38}$ $\frac{50}{5''}$		0	SAND -fine, little silt, trace shell fragments(SM); gray; very dense; wet; split spoon refusal			
87									
88	R-N								
89									
90									

Match to Sheet 6

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

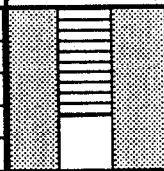
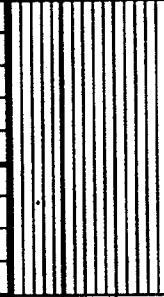
PROJECT: Site 6, Wooded Area
 S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Sampl. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
Continued from Sheet 5									
91	S-19	.25 2.0 13%	50 5"		0	SAND-fine, some silt, trace shell fragments(SM); gray; very dense; wet; split spoon refusal			
92									
93	R-N								
94									
95							95.0'		
96	S-20	.17 2.0 8%	50 5"		0	SAND-fine, little silt, little limestone fragments, trace shell fragments(SM); gray; very dense; wet; split spoon refusal		-62.2	
97								Top of Bentonite 96.0'	
98	R-N								
99									
100									
101	S-21	.33 2.0 17%	40 50 3"		0	SAND-fine, little silt, trace shell fragments(SM); gray; very dense; wet; no recovery on first attempt to sample; split spoon refusal			
102								Top of sand 99.5'	
103	R-N							-69.9	
104									
105							105.0'	-72.2	
106	S-22	1.33 2.0 67%	26 47 50 4"		0	SAND-fine, some silt, trace clay, trace shell fragments(SM); gray; very dense; wet; split spoon refusal			
107								Top of screen 102.7'	
108	R-N								
109									
110						Match to Sheet 7			

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, Wooded Area
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
Continued from Sheet 6									
111	S-23	1.16	37		0	LIMESTONE FRAGMENTS/LIMEY MUD, trace shell fragments; white; very dense; wet		-78.9	
		2.0	30						
112		58%	30						
113			45						
114							End of Boring at 117'		
115						115.0'		-82.2	
116	S-24		20		0	LIMEY MUD, some clay, trace silt, trace shell fragments; white; very dense; wet; split spoon refusal			
				28					
117			50			117.0'		-84.2	
117			5"			End of Boring at 117.0'			
118									
119									
120									
121									
122									
123									
124									
125									
126									
127									
128									
129									
130									

TEST BORING A

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, East of An

S.O. NO.: 19133

COORDINATES: EAST: 2503683.9

ELEVATION: SURFACE: 35.1

NORTH: 347122.4

TOP OF PVC CASING: 37.61

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		10-10-92	0 - 29	Sunny		
LENGTH	2.0'		5.0'		10-13-92	29 - 87	Warm		
TYPE	Std		HSA		10-14-92	87 - 122	Clear and cool		
HAMMER WT.	140#				10-26-92	--	Cloudy, 70°s	22.15	288 h
FALL	30"				11-7-92	--	Cloudy, 50°s	22.27	576 h
STICK UP									

REMARKS: Advanced boring to 12' using 3 1/4" augers. 7 7/8" mud rotary wing bit to final depth taking split spoon samples every 5'. Type III monitoring well installed to 119'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTM DEPT (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Sch 40 PVC	2.5 stickup	108
T = Shelby Tube	W = Wash	Well Screen	4"	Sch 40 PVC, 10 slot	108.1	118
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevat
1							Cement	
2							Top of Cement/bentonite mixture at 2'	
3								
4	A-N							
5								
6								
7								
8								
9	S-1	2.0 2.0	12 12		0	SAND-fine, little silt, trace clay-NP(SM); brown, white brown white; dense; dry, mottle orange		
10		100%	24					

Match to Sheet 2

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, East of Ane
 S.O. NO.: 19133

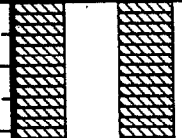
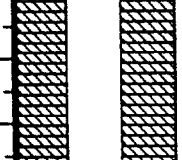
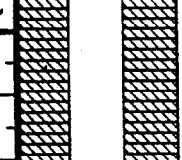
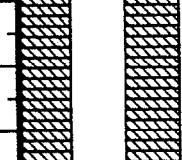
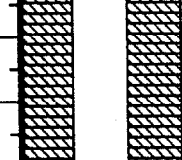

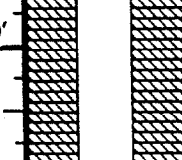
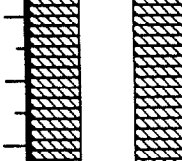
CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
						Continued from Sheet 1			
11	S-2	1.5 2.0 79%	10 21 20 15		0	SAND-fine, some silt(SM); white; dense; moist, mottled orange	<p>Measured water level at 22.15' on 10-26-92</p> <p>Outer 8" steel casing installed at 26'</p>		
12						Water at 12'			
13	S-3	1.17 2.0 58%	4 5 16 18		0	SAND-fine, some silt(SM); yellow; medium dense; wet			
14						Converted to mud rotary drilling			
15	R-N								
16	S-4	1.25 2.0 63%	4 5 19 17		0	SAND-fine, trace silt(SM); white; medium dense; wet			
17									
18	R-N								
19									
20									
21	S-5	.67 2.0 33%	18 27 50 5"		0	SAND-fine, trace silt(SM); white; very dense; wet			
22									
23	R-N								
24									
25						25.0'		10.0	
26	S-6	2.0 2.0 100%	1 4 3 5		0	CLAY, some sand(CL); white; medium stiff; wet, PL		Outer 8" steel casing installed at 26'	
27						27.0'		8.1	
28	S-7	2.0 2.0 100%	8 15 24 36		0	SAND-fine, little silt, trace clay - NP(SM); white; dense; wet			
29						29.0'		6.1	
30	R-N					End of Boring at 29.0' on 10-10-92			
						Match to Sheet 3			

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, East of Ane
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
						Continued from Sheet 2			
31	S-8	1.08	16		0	SAND-fine, some silt(SM); white; very dense; wet		0.1	
		2.0	19						
32		54%	18						
			20						
33	R-N								
34									
35							35.0'		
36	S-9	1.66	3		0	SAND-fine and CLAY(SC); light gray; medium dense; wet			
		2.0	5						
37		83%	11						
38	R-N								
39									
40									
41	S-10	1.42	6		0	SAND-fine, some clay(SC); light green; dense; wet			
		2.0	11						
42		71%	15						
43	R-N								
44									
45							45.0'		
46	S-11	.83	17		0	SAND-fine, little silt, trace clay(SM); light green; very dense; wet		-9.9	
		2.0	25						
47		42%	29						
48	R-N								
49									
50							Match to Sheet 4		

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua
 BORING NO.: 6GW2D

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, East of Ane

S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
						Continued from Sheet 3			
51	S-12	1.17 2.0 58%	9 30 32 22		0	SAND-fine, some silt, trace clay - NP(SM); light gray; very dense; wet, green patches			
52									
53	R-N								
54									
55						SAND-fine and SILT, trace clay - NP(SM); yellow; wet			
56	S-13	2.0 2.0 100%	2 2 3 4		0				
57									
58	R-N								
59						SAND-fine and SILT(SM); yellow			
60									
61	S-14	1.08 2.0 54%	17 19 22 20		0				
62									
63	R-N								
64									
65						SAND-fine, some silt; green SAND-fine and SILT(SM); light brown; wet			
66	S-15	2.0 2.0 100%	7 8 6 5		0				
67									
68	R-N								
69									
70									

Match to Sheet 5

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua

BORING NO.: 6GW2D

SHEET 4 of 6

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, East of Ane
 S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
Continued from Sheet 4									
71	S-16	1.25 2.0	4 12 19 18		0	SAND -fine, some silt(SM); light gray; dense; wet			
72		63%							
73	N-R								
74									
75									
76	S-17	2.0 2.0	29 50 4"		0	SAND -fine, little silt(SM); light gray; very dense; wet; split spoon refusal			
77		100%							
78	N-R								
79									
80									
81	S-18	2.0 2.0	50 4"		0	SAND -fine, some silt(SM); gray; very dense; wet; split spoon refusal			
82		100%							
83	N-R								
84									
85									
86	S-19	2.0 2.0	50 5"		0	SAND -fine, some silt(SM); gray; very dense; wet; split spoon refusal			
87		100%						87.0'	
88						End of Boring at 87.0' on 10-13-92			
89	N-R								
90						Match to Sheet 6			

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: Brian VanDoren

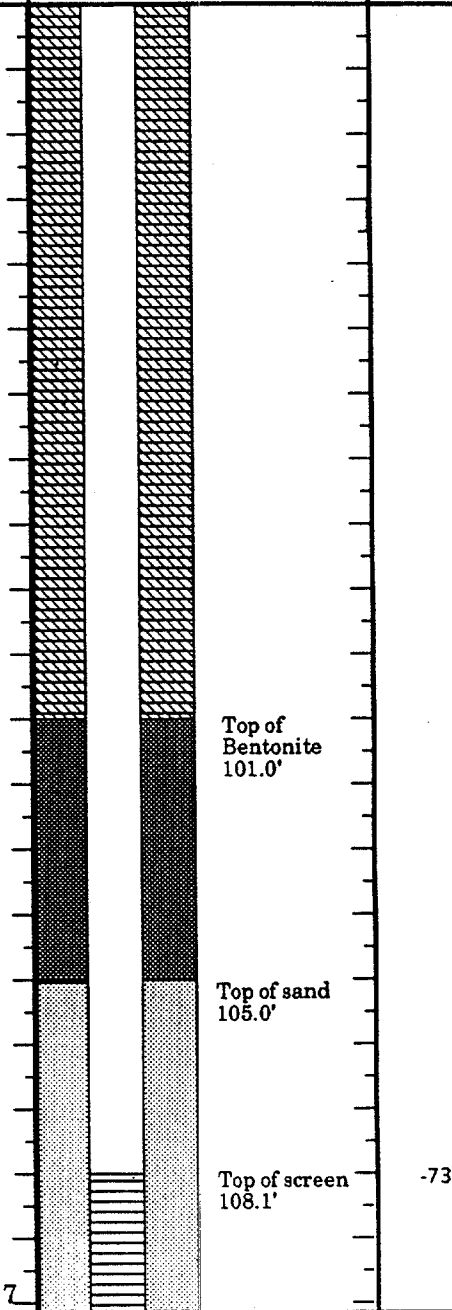
BAKER REP.: Kenneth A. Tua
 BORING NO.: 6GW2D

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, East of An
S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
Continued from Sheet 5									
91	S-20	.54 2.0	49 50 3"		0	SAND-fine, some silt(SM); light gray; very dense; wet; split spoon refusal			
92		27%							
93	R-N								
94									
95									
96	S-21	1.17 2.0	26 50 5"		0	SAND-fine, some silt, trace shell fragments(SM); green; very dense; wet; split spoon refusal			
97		58%							
98	R-N								
99									
100									
101	S-22	.33 2.0	50 5"		0	SAND-fine, some silt, trace shell fragments(SM); light green; very dense; wet; split spoon refusal			
102		17%							
103	R-N								
104									
105									
106	S-23	.42 2.0	49 50 3"		0	SAND-fine, some silt(SM); light green; very dense; wet; split spoon refusal			
107		21%							
108	R-N								
109									
110									



TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, East of Am
 S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
111	S-24	1.42 2.0	15 20 50 5"		0	SILT, some sand-fine, trace shell fragments(SM); green; dense; wet; split spoon refusal			
112		71%							
113	R-N								
114									
115								115.0'	
116	S-25	1.75 2.0	30 16 16 33		0	LIMESTONE FRAGMENTS, trace silt, trace sand-fine; green; dense; wet			
117		88%							
118	R-N								
119									
120									
121	S-26	2.0 2.0	27 17 46 50/4"		0	LIMESTONE FRAGMENTS/LIMEY MUD, trace shell fragments, trace clay - NP; white; very dense; wet			
122		100%							
123						End of Boring at 122.0'			
124									
125									
126									
127									
128									
129									
130									

TEST BORING A

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, RI/FS, Ca

S.O. NO.: 19133

COORDINATES: EAST: 2502011.0

ELEVATION: SURFACE: 17.4

BORING NO.: 6GW7D

NORTH: 344326.3

TOP OF PVC CASING: 20.08

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		10-6-92	0 - 107	Clear and cold	4	
LENGTH	2.0'		5.0'		10-26-92	--	Cloudy, 70's	10.89	480 h
TYPE	Std		HSA		11-7-92	--	Cloudy, 50's	8.94	768 h
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 12' using 3 1/4" augers to sample. Then used mud rotary with 11" wing bit to final depth. Type II monitoring well installed at 100.5'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTO DEPT (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Sch 40 PVC	3' stickup	90.
T = Shelby Tube	W = Wash	Well Screen	4"	Sch 40 PVC, 10 slot	90.5	99.
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevati
1	S-1	1.42 / 2.0	2		1.6	SAND-fine, little silt(SM); light gray; loose; dry	Cement	
2		71%	4					
3	S-2	1.5 / 2.0	5		1.7	SAND-fine and SILT(SM); light gray; medium dense; damp	Top of Cement/bentonite mixture at 2'	
4		75%	7			Water at 4'		13.
5	S-3	.75 / 2.0	5		1.0	SAND-fine, little silt(SM); brown; very loose; wet		
6		38%	6				Cement/bentonite mixture consisted of 5% bentonite with portland cement	11.
7	S-4	1.58 / 2.0	1		.9	SAND-fine, little silt, trace clay(SM); brown; medium stiff; wet		
8		79%	1					
9	A-N		3					
10			3					

Match to Sheet 2

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua

BORING NO.: 6GW7D

SHEET 1 O

TEST BORING AND WELL CONSTRUCTION RECORD

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, RI/FS, Carr
 S.O. NO.: 19133

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevatic
						Continued from Sheet 1			
11	S-4	2.0 2.0 100%	4 1 1 1		.9	SAND-fine and CLAY, little silt(SC); green; wet			6.9
12						Converted to mud rotary drilling			
13	R-N								
14									
15									
16	S-5	1.25 2.0 63%	1 1 4 2		.9	SAND-fine, trace silt(SM); white; loose; wet			
17									
18	R-N								
19									
20									
21	S-6	.91 2.0 46%	3 4 6 7		1.0	SAND-fine, trace silt(SM); light gray; loose; wet			
22									
23	R-N								
24									
25									
26	S-7	.83 2.0 42%	8 9 10 3		.9	SAND-fine, trace silt(SM); green; medium dense; wet			
27									
28	R-N								
29									
30						Match to Sheet 3			

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, RI/FS, Cam
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
						Continued from Sheet 2			
31	S-8	1.08	10		.9	SAND-fine, trace silt(SM); green; medium dense; wet			
		2.0	10						
32		54%	17						
33	R-N								
34									
35									
36	S-9	2.0	2		.8	SAND-fine, some silt, little clay -plastic(SM); green; very loose; wet			
		2.0	1						
37		100%	1						
38	R-N								
39									
40									
41	S-10	1.17	12		.8	SAND-fine, trace silt(SM); green gray; dense; wet			
		2.0	13						
42		58%	22						
43	R-N								
44									
45									
46	S-11	1.0	20		.7	SAND-fine, trace silt; green; very dense; wet			
		2.0	39						
47		50%	44						
48	R-N								
49									
50									

Match to Sheet 4

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6, RI/FS, Camj
 S.O. NO.: 19133

CLEJ-01272-3.13-08/20/93

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample						PID - Photoionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
						Continued from Sheet 3		
51	S-12	.67 2.0 33%	50 5"		.7	SAND-fine, little silt(SM); green; very dense; wet, split spoon refusal		
52								
53	R-N							
54								
55								
56	S-13	2.0 2.0 100%	23 32 48 52		.6	SAND-fine, little silt, trace shell fragments(SM); green; very dense; wet		-37.1
57								
58	R-N							
59								
60								
61	S-14	2.0 2.0 100%	10 23 37 50/4"			SAND-fine, trace silt, trace shell fragments(SM); green; very dense; moist, split spoon refusal		
62								
63	R-N							
64								
65								
66	S-15	.25 2.0 13%	50 5"			SAND-fine, trace silt(SM); gray green; very dense; wet, split spoon refusal		
67								
68	R-N							
69								
70								

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua
 BORING NO.: 6GW7D

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW7D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
						Continued from Sheet 4			
71	S-16	.42 2.0	34			SAND -fine, trace silt, trace shell fragments(SM); green gray; very dense; wet, split spoon refusal			
72		21%	50 5"						
73	N-R					SAND -fine, trace silt, trace shell fragments(SM); green gray; very dense; wet; split spoon refusal			
74									
75									
76	S-17	.33 2.0	42			SAND -fine, trace silt, trace shell fragments(SM); green gray; very dense; wet; split spoon refusal			
77		17%	50 4"						
78	N-R					SAND -fine, trace silt, trace shell fragments(SM); green gray; very dense; wet; split spoon refusal			
79									
80									
81	S-18	.42 2.0	50						
82		21%	50 5"						
83	N-R								
84									
85									
86	S-19	1.33 2.0	19			SAND -fine and LIMESTONE FRAGMENTS, some silt, trace shell fragments; green gray; very dense; wet; split spoon refusal			
87		67%	43 50 5"						
88	N-R								
89									
90									

85.0'

-67.6

Top of Bentonite at 83.0'

Top of Sand at 86.5'

Match to Sheet 6

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua

BORING NO.: 6GW7D

SHEET 5 C

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW7D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
Continued from Sheet 5									
91	S-20	1.17 2.0 59%	20 22 30 35			LIMESTONE FRAGMENTS/ LIMEY MUD, some sand-fine, trace shell fragments; white; very dense; wet	<p>Top of screen 90.5'</p> <p>Bottom of Screen 99.5'</p> <p>End of Well at 100.5'</p> <p>End of Boring at 107'</p>	-73.1	
92									
93	R-N								
94									
95									
96	S-21	1.08 2.0 54%	24 28 50 5"			LIMESTONE FRAGMENTS/ LIMEY MUD, trace shell fragments; white; very dense; wet, split spoon refusal			
97									
98	R-N								
99									
100									
101	S-22	1.25 2.0 63%	27 48 50 5"			SAND-fine, trace limestone fragments/ mud, trace shell fragments; green; very dense; wet, split spoon refusal		-82.1	
102								-83.1	
103	R-N								
104									
105							104.5'	-87.1	
106	S-23	83% 42%	27 50 5"			SAND-fine, trace silt(SM); green; very dense; wet; split spoon refusal			
107							107.0'	-89.6	
108						End of Boring at 107.0'			
109									
110									

Baker Environmental, Inc.

PROJECT: Site 6, Wooded Area, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW27D

COORDINATES: EAST: 2502377.6

NORTH: 348248.2

ELEVATION: SURFACE: 22.5

TOP OF PVC CASING: 24.47

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		10-11-92	0 - 16	Rain/ cool		
LENGTH	2.0'		5.0'		10-12-92	16 - 112	Clear/ cool		
TYPE	Std		HSA		10-26-92	--	Cloudy, 70°s	15.35	336 hr:
HAMMER WT.	140#				11-7-92	--	Cloudy, 50°s	15.17	624 hr:
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 16' using 3 1/4" augers. 7 7/8" mud rotary wing bit to final depth taking split spoon samples every 5'. Type II monitoring well installed at 110'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Sch 40 PVC	1.9 stickup	100.1
T = Shelby Tube	W = Wash	Well Screen	4"	Sch 40 PVC, 10 slot	100.1	109.1
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (PPM)	Visual Description	Well Installation Detail	Elevation
1							Cement	
2							Top of Cement/bentonite mixture at 2'	
3								
4	A-N							
5								
6							Cement/bentonite mixture consisted of 5% bentonite with portland cement	
7								
8								
9								
10								

Match to Sheet 2

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: Kenneth A. Tua

DRILLER: Brian VanDoren

BORING NO.: 6GW27D

SHEET 1 OF



TEST BORING /

PROJECT: Site 6, Wooded Area, RI/FS, Camp Lejeune
 S.O. NO.: 19133
 COORDINATES: EAST: 2502377.6
 ELEVATION: SURFACE: 22.5

BORING NO.: 6GW27D
 NORTH: 348248.2
 TOP OF PVC CASING: 24.47

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIM
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		10-11-92	0 - 16	Rain/ cool		
LENGTH	2.0'		5.0'		10-12-92	16 - 112	Clear/ cool		
TYPE	Std		HSA		10-26-92	--	Cloudy, 70's	15.35	336 h
HAMMER WT.	140#				11-7-92	--	Cloudy, 50's	15.17	624 h
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 16' using 3 1/4" augers. 7 7/8" mud rotary wing bit to final depth taking split spoon samples every 5'. Type II monitoring well installed at 110'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTT DEPT (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Sch 40 PVC	1.9 stickup	100
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	4"	Sch 40 PVC, 10 slot	100.1	109
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (PPM)	Visual Description	Well Installation Detail	Elevat
1							Cement	
2							Top of Cement/ bentonite mixture at 2'	
3								
4	A-N							
5								
6								
7								
8								
9								
10								

Match to Sheet 2

DRILLING CO.: Hardin Huber, Inc.
 DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua
 BORING NO.: 6GW27D

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW27D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
						Continued from Sheet 1			
11	S-1	1.25 2.0 63%	4 4 12 14		0	CLAY-plastic, some sand-fine(CL); gray to orange; medium dense; damp			10.5
12						12.0'			
13	S-2	1.33 2.0 67%	5 5 10 22		0	SAND-fine, some silt, trace clay-non plastic(SM); yellow; medium dense; wet, mottled orange			
14									
15	S-3	1.5 2.0 75%	12 16 20 22		0	16.0'			
16						End of Boring at 16.0' on 10-11-92 Converted to mud rotary drilling			Measured water level at 15.35' on 10-26-92
17	R-N								
18									
19									
20						20.0'			
21	S-4	2.0 2.0 100%	9 10 6 5		0	CLAY-plastic, sand-fine, trace silt,(CL); gray; medium dense; wet			2.5 2.2
22						20.3'			
23	R-N								
24									
25									
26	S-5	1.08 2.0 54%	10 15 17 18		0	SAND-fine, little silt, trace clay - plastic(SM); light gray; dense; wet			
27									
28	R-N								
29									
30						Match to Sheet 3			

PROJECT: Site 6, RI/FS, Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6GW27D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
						Continued from Sheet 2			
31	S-6	1.0	7		0	SAND-fine, little clay-NP, trace silt(SM); light brown; medium dense; wet, mottled orange			
		2.0	9						
32		50%	15	12					
33	R-N								
34									
35	S-7	1.0	7		0	SAND-fine, some silt(SM); gray; dense; wet			
36		2.0	11						
37		50%	24	28					
38	R-N								
39									
40	S-8	.92	7		0	SAND-fine and SILT(SM); light gray; dense; wet, banded brown			
41		2.0	19						
42		46%	21	25					
43	R-N								
44									
45	S-9	2.0	6		0	CLAY(CL) SAND-fine, some clay, trace silt; green black; dense; wet		-22.5	
		2.0	13						
46		100%	37	18					
47	R-N							-22.8	
48									
49									
50									

PROJECT: Site 6, RI/FS, Camp Lejeune
S.O. NO.: 19133

BORING NO.: 6GW27D

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
51	S-10	1.16 2.0	11 15 20		0	SAND-fine, some silt(SM); light gray green; dense; wet, split spoon refusal		
52		58%	50/2"					
53	R-N							
54								
55								
56	S-11	.58 2.0	27 50 2"		0	SAND-fine and SILT, trace shell fragments(SM); white; very dense; wet, split spoon refusal		
57		29%						
58	R-N							
59								
60								
61	S-12	.17 2.0	50 5"		0	SAND-fine, some silt(SM); green; very dense; wet, split spoon refusal		
62		8%						
63	R-N							
64								
65								
66	S-13	.33 2.0	50 3"		0	SAND-fine, little silt(SM); green; very dense; wet, split spoon refusal		
67		17%						
68	R-N							
69								
70						Match to Sheet 5		

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW27D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevatic
71	S-14	.42 2.0 21%	50 4"		0	SAND -fine, some silt, trace shell fragments(SM); light green; very dense; wet, split spoon refusal			
72									
73	N-R					SAND -fine and SILT, trace shell fragments(SM); light green; very dense; wet, split spoon refusal			
74									
75									
76	S-15	.67 2.0 33%	39 50 2"		0	SAND -fine, some silt, trace shell fragments(SM); light green; very dense; wet, split spoon refusal			
77									
78	N-R					SAND -fine, some silt, trace shell fragments(SM); light green; very dense; wet, split spoon refusal			
79									
80									
81	S-16	.58 2.0 29%	28 50 2"		0	SAND -fine, some silt, trace shell fragments(SM); light green; very dense; wet, split spoon refusal			
82									
83	N-R					SAND -fine, some silt, trace shell fragments(SM); light green; very dense; wet, split spoon refusal			
84									
85									
86	S-17	.42 2.0 21%	50 4"		0	SAND -fine, some silt, trace shell fragments(SM); light green; very dense; wet, split spoon refusal			
87									
88	N-R					SAND -fine, some silt, trace shell fragments(SM); light green; very dense; wet, split spoon refusal			
89									
90									

Match to Sheet 6

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua

BORING NO.: 6GW27D

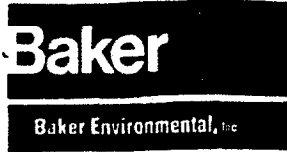
SHEET 5 C

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW27D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevatic
Continued from Sheet 5									
91	S-18	.42 2.0 21%	50 5"		0	SAND-fine, some silt, trace shell fragments(SM); light green; very dense; wet, orange spots, split spoon refusal			
92									
93	R-N				NR				
94						SAND-fine, some silt, little shell fragments(SM); green; dense; wet, split spoon refusal			
95						95.2'	Top of Bentonite 94.5'		-72.7
96	S-19	2.0 2.0 100%	19 20 27 32		0	SILT, little sand-fine, trace clay-NP(ML)			
97							Top of sand 97.0'		
98	R-N				NR				
99									
100						100'			
101	S-20	1.42 2.0 71%	11 19 21 26		0	LIMESTONE FRAGMENTS and LIMEY MUD, trace silt, trace shell fragments; white; dense; wet			
102							Top of screen 100.1'		-77.5
103	R-N				NR				
104									
105									
106	S-21	1.5 2.0 75%	25 50 3"		0	LIMESTONE FRAGMENTS and LIMEY MUD, trace clay NP, trace shell fragments; white; very dense; wet, split spoon refusal			
107	R-N				MR				
108									
109	S-22	1.5 2.0 75%	19 33 40 25		0		Bottom of screen 109.1'		-86.6
110						Match to Sheet 7	Bottom of Well 110'		-87.5



TEST BORING A

CLEJ-01272-3.13-08/20/93

RI

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW27D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevati
111	R-N					Continued from Sheet 6			-89.5
112					112.0'				
113						End of Boring at 112.0'			
114									
115									
116									
117									
118									
119									
120									
121									
122									
123									
124									
125									
126									
127									
128									
129									
130									

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua

BORING NO.: 6GW27D

SHEET 7 C

Baker Environmental, Inc.

PROJECT: Site 6, Wooded Area, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW28D

COORDINATES: EAST: 2502767.0

NORTH: 348604.3

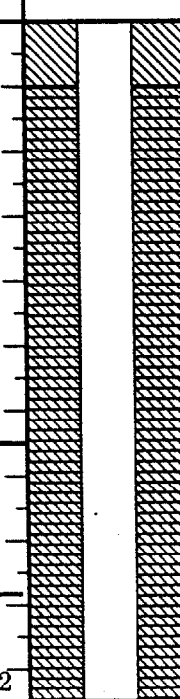
ELEVATION: SURFACE: 28.7

TOP OF PVC CASING: 31.74

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		10-20-92	0 - 114.5	Cool		
LENGTH	2.0'		5.0'		10-26-92	--	Cloudy, 70°s	22.05	144 hr
TYPE	Std		HSA		11-07-92	--	Cloudy, 50°s	22.10	432 hr
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Advanced boring to 22' using 3 1/4" augers. Completed borehole 7 7/8" mud rotary wing bit taking split spoon samples every 5'. Type II monitoring well installed to 114.5'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Sch 40 PVC	1.9 stickup	104.7
T = Shelby Tube	W = Wash	Well Screen	4"	Sch 40 PVC, 10 slot	104.7	113.6
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (PPM)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.6 2.0	2			SAND, fine grained, little silt(SM); brown; loose; dry		22.2
2		80%	2					
3	S-2	1.0 2.0	2			SAND-fine grained, little silt(SM); brown; loose; dry		
4		50%	3					
5	S-3	1.4 2.0	7			SAND, medium grained, trace silt, trace clay (SM); brown; medium dense; damp		
6		70%	11					
7	S-4	1.8 2.0	5			SAND(fine grained) some clay; (ML); brown; medium dense; damp		20.2
8		90%	13					
9	S-5	1.9 2.0	3			SAND, fine grained, trace silt (SM); white; medium dense; damp		
10		95%	12					

Bentonite/portland cement mixture. Mixture consisted of 5% bentonite

Match to Sheet 2

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J. Culp

DRILLER: C. Chism

BORING NO.: 6GW28D

SHEET 1 OF

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

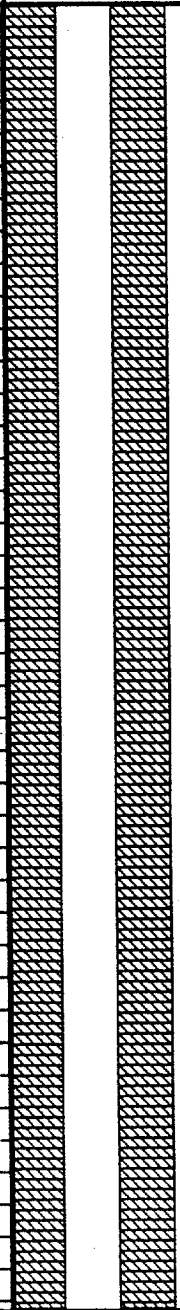
BORING NO.: 6GW28D

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample						PIE = Photoionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
						Continued from Sheet 1		
11	S-6	2.0 2.0	12 10 11			SAND , fine grained, trace silt (SM); white; medium dense; damp		
12		100%	9					
13		2.0 2.0	12 10 4					
14	S-7	100%	9			SAND , fine grained, little silt, trace clay (SM); grey; medium dense; damp		
15		2.0 2.0	9 10 12					
16	S-8	100%	16			SAND , fine grained, little silt, (SM); grey; medium dense; damp		
17		2.0 2.0	9 10 12					
18		100%	8					
19	S-9	1.7 2.0	10 14 12			SAND , fine grained, little silt, (SM); grey; medium dense; damp, iron staining		
20		85%	16					
21		1.6 2.0	9 10 14					
22	S-10	80%	12			SAND , fine grained, little silt, (SM); grey; medium dense; moist, iron staining		
23			16					
24								
25	S-11	1.6 2.0	9 10 14			SAND , fine grained, little silt, (SM); grey; medium dense; wet, groundwater at 20'		
26		80%	12					
27								
28	R-N					Converted to mud rotary drilling at 22'		
29								
30								
31	S-12	1.1 2.0	7 6 6			SAND , fine grained, little silt (SM); brown; medium dense; wet		
32		55%	6					
33			6					
34	R-N					Match to Sheet 3		
35								
36								

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW28D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
						Continued from Sheet 2			
31	S-13	2.0	6			SAND, fine grained, some silt (SM); brown; medium dense; wet			
		2.0							
32		100%	6						
33	R-N								
34									
35	S-14	1.0	10			SAND, fine grained, little silt (SM); brown, medium dense; wet, iron staining			
36		2.0							
37		50%	4						
38	R-N					Note: Shell fragments encountered between 37' to 40'			
39									
40	S-15	2.0	7			SAND, fine grained, some silt, trace clay (SM); green; medium dense; wet, shell fragments, spoon refusal			
41		2.0							
42		100%	7						
43	R-N								
44									
45	S-16	1.0	44			SAND, fine grained, little silt, trace clay (SM); green; very dense; wet, spoon refusal, sand nodules			
46		2.0							
47		50%	50/1						
48	R-N								
49									
50									

Match to Sheet 4

PROJECT: Site 6, RL/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW28D

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample						PID = Photoionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
						Continued from Sheet 3		
51	S-17	0.4 2.0	50 .3			SAND, fine grained, some silt, trace clay, some limestone fragments, trace shell fragments; green; very dense; wet, spoon refusal		-23.8
52		20%				52.5'		
53	R-N					Note: Cuttings from 50' - 55' indicate shell fragments		
54								
55								
56	S-18	0.8 2.0	150 .5			SHELL FRAGMENTS, some sand, trace silt; grey green; very dense; wet, spoon refusal		
57		40%						
58	R-N							
59								
60								
61	S-19	0.3 2.0	150 .3			SHELL FRAGMENTS, some sand, trace silt; grey green; very dense; wet, spoon refusal		-37.3
62		15%						
63	R-N							
64								
65								
66	S-20	0.4 2.0	100 .4			SAND, fine grained, trace shell fragments, little silt (SM); grey; very dense; wet, spoon refusal		
67		20%				66.0'		
68	R-N							
69								
70						Match to Sheet 5		

DRILLING CO.: Hardin Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. Culp

BORING NO.: 6GW28D

SHEET 4 OF

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW28D

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
71	S-21	0.5 2.0 25%	100 .5			SAND, fine grained, little silt (SM); grey; very dense; wet, spoon refusal		
72								
73	R-N					SAND, fine grained, little silt, trace shell fragments (SM); grey; very dense; wet, spoon refusal		
74								
75								
76	S-22	0.3 2.0 15%	100 .3			SAND, fine grained, some shell fragments, little silt, trace clay (SM); grey green; dense; wet		
77								
78	R-N					SAND, fine grained, little shell fragments, little silt, trace clay (SM); grey green; very dense; wet, spoon refusal		
79								
80								
81	S-23	2.0 2.0 100%	10 15 20 22					
82						SAND, fine grained, little shell fragments, little silt (SM); grey green; very dense; wet, spoon refusal		
83	R-N							
84								
85						SAND, fine grained, little shell fragments, little silt (SM); grey green; very dense; wet, spoon refusal		
86	S-24	0.8 2.0 40%	66 50 .1					
87						SAND, fine grained, little shell fragments, little silt (SM); grey green; very dense; wet, spoon refusal		
88	R-N							
89								
90						Match to Sheet 6		

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample				PID = Photoionization Detector					
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
Continued from Sheet 5									
91	S-25	0.3 2.0 15%	100 .4			SAND, fine grained, little silt, trace shell fragments (SM); grey green; very dense; wet, spoon refusal	<p>95 ft. top of bentonite</p> <p>99 ft. top of sand</p> <p>104.7 ft. top of screen</p>		
92									
93	R-N								
94									
95									
96	S-26	0.4 2.0 20%	100 .5			SAND, fine grained, little silt, trace shell fragments (SM); grey green; very dense; wet, spoon refusal			
97									
98	R-N								
99									
100									
101	S-27	1.0 2.0 50%	22 30 50 .4			SAND, fine grained, little silt, little shell fragments, trace clay (SM); grey green; very dense; wet, spoon refusal			
102									
103	R-N								
104									
105									
106	S-28	2.0 2.0 100%	19 35 42 43			SAND, fine grained, little silt, little shell fragments, trace clay (SM); grey green; very dense; wet	106.0'	-76	
107						LIMESTONE FRAGMENTS, little sand, trace clay, trace shell fragments; white; very dense; wet		-77.3	
108									
109	R-N								
110							Match to Sheet 7		

PROJECT: Site 6, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW28D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample						SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5') RQD = Rock Quality Designation (%) Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282) Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
						Continued from Sheet 6			
111						LIMESTONE fragments, trace sand, trace shell fragments, trace clay; white; very dense; wet, spoon refusal			
112						SAND, fine grained, little silt, trace clay(SM); white; very dense; wets, spoon refusal			-82.8
113									-84.9
114	R-N							Bottom of screen 113.6'	
115						End of Boring at 115.0'		Bottom of Well 114.5'	-85.8
116								End of Boring at 115.0'	-86
117									
118									
119									
120									
121									
122									
123									
124									
125									
126									
127									
128									
129									
130									

E.3

Site 9 - Wells



TEST BORING /

PROJECT: Site 9 Fire Training Area, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW4

COORDINATES: EAST: 2503095.1

NORTH: 342209.5

ELEVATION: SURFACE: 28.3

TOP OF PVC CASING: 30.70

RIG: B-53					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		9-23-92	21.3	Cldy and rain		
LENGTH	2'		5'		9-26-92	--	Cloudy, 70's	9.29	72 hr
TYPE	STD		HSA		9-30-92	--	Sunny, 70's	9.20	168 hr
HAMMER WT.	140#				10-10-92	--	Sunny, 70's	8.73	408 hr
FALL	30"				10-26-92	--	Cloudy, 60's	6.69	792 hr
STICK UP									

REMARKS: Soil boring advanced 21' and Type II monitoring well installed to 21' below ground surface.

SAMPLE TYPE			WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger		Well Casing	4"	Schedule 40 PVC	2.4 stickup	6.3
T = Shelby Tube	W = Wash		Well Screen	4"	Schedule 40 PVC, 10 slot	6.3	20.3
R = Air Rotary	C = Core						
D = Denison	P = Piston						
N = No Sample							

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.67 2.0	3 5		1.5	SILT, some sand-fine(SM); black; loose; dry, organics		27.3
2		84%	10 11			SAND-fine, trace silt(SM); brown		26.3
3	S-2	1.83 2.0	3 4		3.0	SILT & SAND-fine(SM); black; loose; dry		24.3
4		92%	4 5			SAND-fine, trace silt(SM); light gray; loose; damp, mottled orange		20.3
5	S-3	1.75 2.0	3 4		1.7	SAND-fine, trace silt(SM); gray; medium dense; moist		
6		88%	4 5			Water		
7	S-4	2.0 2.0	7 10		1.7			
8		100%	14 15					
9	S-5	2.0 2.0	9 12		1.8	SAND-fine, trace silt(SM); light gray; medium dense; wet		20.3
10		100%	17 13					

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: Kenneth A. Tua

DRILLER: Tom Cramer

BORING NO.: 9GW4

SHEET 1 OF

Baker Environmental, Inc.

PROJECT: Site 9, Fire Training Area, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW4

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	A-N								
12									
13	S-6	1.84 2.0 92%	1 2 3 3		1.7	SAND-fine and SILT(SM); light gray; very loose; wet			
14									
15									
16	A-N								
17									
18	S-7	2.0 2.0 100%	2 4 6 10		1.8	SAND-fine and CLAY(SC); white; medium stiff; wet		9.8	
19									
20									
21	End of Boring at 21'							7.3	
22									
23									
24									
25									
26									
27									
28									
29									
30									

PROJECT: Site 9, Fire Training Area, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW5

COORDINATES: EAST: 2502680.6

NORTH: 343047.5

ELEVATION: SURFACE: 28.0

TOP OF PVC CASING: 30.81

RIG: Mobile B-61					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		9-22-92	19.5	P.Sunny, 80°s		
LENGTH	2'		5'		9-26-92	--	Cloudy, 80°s	10.10	96 hr
TYPE	STD		HSA		9-30-92	--	Sunny, 70°s	10.24	192 hr
HAMMER WT.	140#				10-10-92	--	Sunny, 70°s	10.16	432 hr
FALL	30"				10-26-92	--	Cloudy, 60°s	10.81	416 hr
STICK UP									

REMARKS: Advanced boring to 19.5' taking continuous split spoon samples to the water table, then at 5' intervals. Typ II monitoring well installed at 18.9'. DO=DIDDO

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.81 stickup	4.2
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	4.2	18.5
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevatic
1	S-1	1.5 2.0	3 4 5			SAND, fine, little silt(SM); gray to buff to light brown at tip; loose; dry		
2		75%	5			SAND, fine, (SM); light brown to tan; loose; damp		
3	S-2	1.5 2.0	3 3 3					
4		75%	4			(SM), except 2.5" lense of silt and fine sand 4" from tip of split spoon; light brown to brown; loose; moist		
5	S-3	1.58 2.0	3 3 5		0	SAND, fine, little silt(SM); buff; medium dense, water at 6.5'		
6		79%	6					
7	S-4	1.42 2.0	4 7 8		1			
8		71%	9					
9	A-N							
10								

PROJECT: Site 9, Fire Training Area, R/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW5

Baker Environmental, Inc.

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	A-N								
12									
13							13.0'	15.0	
14	S-5	1.67 2.0	2			SILT and FINE SAND, trace clay(SM); light gray with orange mottling; very loose; wet, slightly plastic			
15		83%	2						
16	A-N		7						
17							17.0'	11.0	
18		2.0 2.0	WOR/6" 3			CLAY and SILT, trace medium to fine sand in partings(ML); buff to gray; soft; wet, plastic		9.5	
19	S-6	100%	3			ORGANIC SILT & CLAY(OL); black; medium stiff; wet, top 9" of the split spoon contained a 2" & 3" wood particles, non plastic			
20	A-N		5				18.5'	8.5	
21							19.5'		
22						End of Boring at 19.5'			
23									
24									
25									
26									
27									
28									
29									
30									



TEST BORING A

CLEJ-01272-3.13-08/20/93

R

PROJECT: Site 9 Fire Training Area, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW6

COORDINATES: EAST: 2502624.3

NORTH: 342476.6

ELEVATION: SURFACE: 28.7

TOP OF PVC CASING: 31.31

RIG: Mobile B-61					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		9-23-92	20.2	Ptly cldy, 85°		
LENGTH	2'		5'		9-26-92	--	Cloudy, 80°s	10.19	72 hr
TYPE	STD		HSA		9-30-92	--	Sunny, 70°s	10.30	168 hr
HAMMER WT.	140#				10-10-92	--	Sunny, 70°s	10.41	408 hr
FALL	30"				10-26-92	--	Cloudy, 60°s	11.25	792 hr
STICK UP									

REMARKS: Advanced boring to 20.2' taking continuous split spoon samples to the water table, then at 5' intervals. Typ II monitoring well installed at 19.7'. DO=DIDDO

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.6 stickup	4.9
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	4.9	19.3
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.08 2.0	7			SILT & FINE SAND , little fine gravel(SM); gray to brown; medium stiff; dry	Cement	
2		54%	3		2.0'			
3	S-2	1.17 2.0	2			FINE SAND , little silt(SM); light brown; loose; damp	Top of Bentonite at 1.9'	26.7
4		58%	3		2.7'			26.0
5	S-3	1.42 2.0	5			SILT , little fine sand(SM-OL)(organic); black; stiff; non plastic	Top of Sand at 2.9'	
6		71%	6		4.0'			24.7
7	S-4	1.75 2.0	2			FINE SAND , little silt(SM); light gray; damp	Top of screen at 4.9'	
8		87%	6		4.6'			24.1
9	S-5	1.33 2.0	8		0	ORGANIC SILT , some fine sand(OL-SM); black brown; stiff; non plastic	Measured water table at 10.19' on 9-26-92	
10		66%	9		6.0'			22.7
						FINE SAND , little silt(SM); brown to buff; medium dense; moist, water at 7'	Sand Pack #2 Silica sand	21.7
						FINE SAND , little silt(SM); light gray; medium dense; wet		

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: D.J. Martin

DRILLER: C. Chism

BORING NO.: 9GW6

SHEET 1 OF

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	A-N					CLAY, some silt, trace fine sand in partings(CL); light gray; medium stiff; wet, plastic		13.1	
12									
13									
14	S-6	2.0 2.0	2 3			15.6'	18.0'	10.7	
15									
16	A-N	100%	10			18.5'	Bottom of screen at 19.3'	9.2	
17									
18	S-7	1.83 2.0	1 2			19.5'	Well depth at 19.7'	8.2	
19									
20									
21		91%	4			20.2'	Boring depth at 20.5'		
22						End of Boring at 20.2'			
23									
24									
25									
26									
27									
28									
29									
30									

Baker

Baker Environmental, Inc.

TEST BORING A

CLEJ-01272-3.13-08/20/93

PROJECT: Site 9, Fire Training Area, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW7S

COORDINATES: EAST: 2502626.6

NORTH: 343260.5

ELEVATION: SURFACE: 26.2

TOP OF PVC CASING: 28.76

RIG: Mobile B-61					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		9-23-92	22.0	Overcast, 85°		
LENGTH	2'		5'		9-26-92	--	Cloudy, 80°s	10.99	72 hr
TYPE	STD		HSA		9-30-92	--	Sunny, 70°s	11.13	168 h
HAMMER WT.	140#				10-10-92	--	Sunny, 70°s	10.97	408 h
FALL	30"				10-26-92	--	Cloudy, 60°s	11.69	792 h
STICK UP									

REMARKS: Advanced boring to 22' taking continuous split spoon samples to the water table, then at 5' intervals. Type monitoring well installed at 21.5'. DO=DIDDO

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTO DEPT (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.5 stickup	7.
T = Shelby Tube	W = Wash	Well Screen	4"	Schedule 40 PVC, 10 slot	7.1	2
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevati
1	S-1	1.25 2.0	1			SAND, fine, little silt(SM); light gray to yellow brown at tip; very loose; dry	Cement	
2		63%	2					
3	S-2	1.83 2.0	2			SAND, fine (SM); light brown to buff; loose; damp	Top of Bentonite at 3'	
4		92%	2					
5	S-3	1.67 2.0	3			SAND, fine (SM); light brown to buff; medium dense; damp, color also brown mottled	Top of Sand at 5'	
6		84%	5				Sand Pack #2 Silica Sand	20.2
7	S-4	1.83 2.0	4		0	SILT and FINE SAND(SM); light brown to buff; stiff; damp, color also orange mottled	Top of screen at 7.1'	
8		92%	5					
9	S-5	1.83 2.0	3		0	SILT, some sand(SM); brown with gray mottling; soft; moist, water at 9.25'	Measured water table at 10.99' on 9-26-92	17.0
10		92%	2			SAND, fine, some silt(SM); light gray; loose; wet		

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: D.J. Martin

DRILLER: C. Chism

BORING NO.: 9GW7S

SHEET 1 0

PROJECT: Site 9, Fire Training Area, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW7S

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	A-N								
12									
13									
14	S-6	2.0 2.0	7 28 32 49			SAND(SM); light gray; very dense; wet			
15									
16	A-N	100%							
17									
18									
19									
20	S-7	2.0 2.0	7 20 19 18			SAND(SM) fine ; light gray; very dense; wet			
21									
22	End of Boring at 22.0'						22.0'	Bottom of screen at 21' Well depth at 21.5' Boring depth at 22'	4.2
23									
24									
25									
26									
27									
28									
29									
30									

PROJECT: Site 9, Fire Training Area, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW8

COORDINATES: EAST: 2502806.0

NORTH: 343010.2

ELEVATION: SURFACE: 26.0

TOP OF PVC CASING: 28.39

RIG: Mobile B-61					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8"		3 1/4" ID 8 1/4" ID		9-23-92	19.0	Overcast, 85°		
LENGTH	2'		5'		9-26-92	--	Cloudy, 80°s	7.85	72 hr
TYPE	STD		HSA		9-30-92	--	Sunny, 70°s	7.93	168 hr
HAMMER WT.	140#				10-10-92	--	Sunny, 70°s	7.94	408 hr
FALL	30"				10-26-92	--	Cloudy, 60°s	8.65	792 hr
STICK UP									

REMARKS: Advanced boring to 19' taking continuous split spoon samples to the water table, then at 5' intervals. Type monitoring well installed at 18.4'. DO=DIDDO

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTO DEPTI (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Schedule 40 PVC	2.4 stickup	3.
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	4"	Schedule 40 PVC, 10 slot	3.5	1
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevati
1	S-1	1.25 2.0	1			SAND, fine, little silt, little organic rich material(SM); dark gray; very dry	<p>Cement</p> <p>Top of Bentonite at 1'</p> <p>Top of Sand at 2'</p> <p>Top of screen at 3.5'</p> <p>Sand Pack #2 Silica Sand</p> <p>Measured water level at 7.85' on 9-26-92</p>	25.5
2		62%	3			SAND, fine, little silt(SM); light gray; loose		
3		1.83 2.0	3		0	SAND, fine, little silt(SM); brown to light brown; loose; damp		
4	91%	6						
5	1.83 2.0	4			SAND, fine (SM); light gray; moist			
6	91%	7			SAND, fine, some silt(SM); gray; loose; wet			
7	1.33 2.0	4						
8	66%	4						
9	A-N							
10								

PROJECT: Site 9, Fire Training Area, RI/FS, Camp Lejeune

S.O. NO.: 19133-59-SRN

BORING NO.: 9GW8

Baker Environmental, Inc.

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	S-5	1.67	7			SAND, fine, little silt(SM); medium dense; wet			
		2.0	8						
12		83%	13						
13	A-N					SAND, fine, little silt(SM); gray; loose; wet			
14									
15									
16									
17	S-6	2.0	3			SILT, some fine sand, trace clay in stringers(SM); gray with orange mottling; medium stiff; wet, non plastic			
		2.0	3						
18		100%	4					8.4	
19	A-N					End of Boring at 19.0'		7.0	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

DRILLING CO.: Hardin Huber, Inc.

DRILLER: C. Chism

BAKER REP.: D.J. Martin

BORING NO.: 9GW8

SHEET 2 OF 0

Baker Environmental, Inc.

PROJECT Site 9, Fire Training Area, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW7D

COORDINATES: EAST: 250263.1

NORTH: 343275.0

ELEVATION: SURFACE: 26.6

TOP OF PVC CASING: 29.10

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIM
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		4 1/4" ID		9-25-92	0 - 12	Ovcst and cool		
LENGTH	2.0'		5.0'		9-27-92	12 - 110	Rain		
TYPE	Std		HSA		9-30-92	--	Sunny, 70's	13.56	72 hr
HAMMER WT.	140#				10-26-92	--	Cloudy, 60's	18.40	696 h
FALL	30"								
STICK UP									

REMARKS: Boring advanced with 4 1/4" ID HSA to 12'; converted to mud rotary and advanced boring to 110'. installed Type II monitoring well at 116'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTO DEPT (FT)
S = Split Spoon	A = Auger	Well Casing	4"	Sch 40 PVC	2.5' stickup	10
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	4"	Sch 40 PVC, 10 slot	100	10
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevati
1							Cement	
2							Top of Cement/bentonite mixture at 2'	
3								
4	A-N							
5								
6								
7								
8								
9	S-1	1.25 2.0	3 2			SAND-fine and SILT(SM); yellow; medium dense; damp to wet.		
10		63%	15			Water		17.1
						9.5'		
						Match to Sheet 2		

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: Kenneth A. Tua

DRILLER: Brian VanDoren

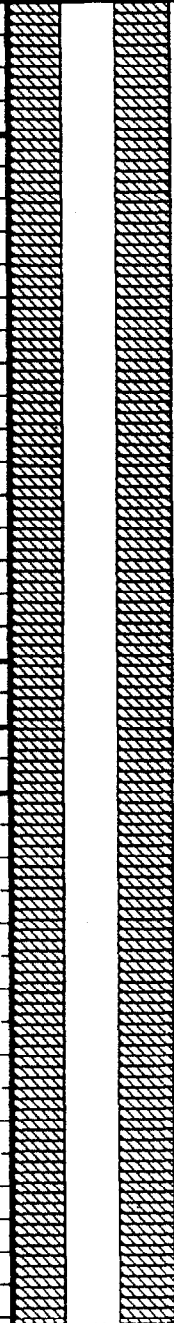
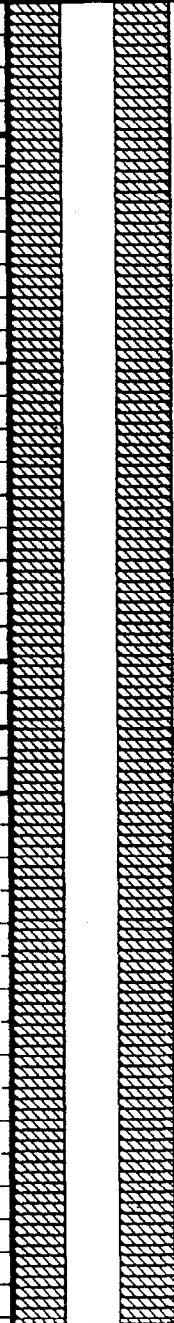
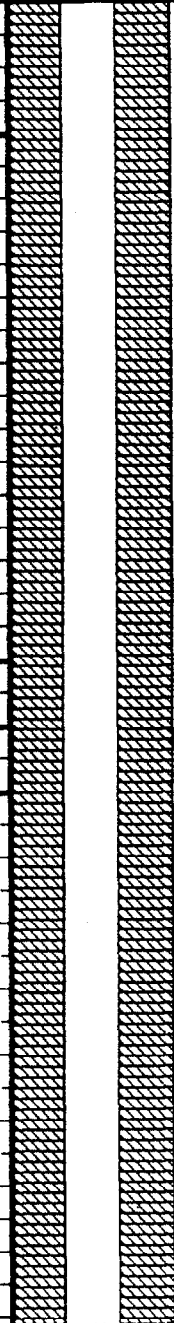
BORING NO.: 9GW7D

SHEET 1 OF

PROJECT: Site 9, Fire Training Area, WFO, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW7D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
						Continued from Sheet 1			
11	S-2	1.08 2.0	5 8 11			SAND-fine and SILT(SM); yellow to gray; medium dense; wet		Measured water level at 13.56' on 9-30-92	
12		54%	13						12.0'
13	R-N					End of Boring at 12.0' on 9-25-92 Converted to mud rotary			
14									
15									
16	S-3	1.33 2.0	16 26 19			SAND-fine, trace silt, shell fragments(SM); white; dense; wet			
17		67%	27						20.0'
18	R-N								
19									
20									6.6
21	S-4	1.27 2.0	5 9 15			12" SAND-fine, some clay, trace silt(SC); gray; medium dense; wet			5.6
22		83%	19			8" SAND-fine, little clay, trace silt, trace shell fragments(SC); gray			4.6
23	R-N								
24									
25									
26	S-5	1.08 2.0	12 13 11			SAND-fine, trace silt, trace clay(SM); gray; medium dense; wet			
27		54%	14						
28	R-N								
29									
30									
						Match to Sheet 3			

PROJECT: Site 9, Fire Training Area, 474 S. Camp Springs

S.O. NO.: 19133

BORING NO.: 9GW7D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
31	S-6	1.08 2.0	5 5 6 6			SAND-fine, little silt, trace clay(SM); gray; medium dense; wet			
32		54%							
33	R-N					SAND-fine, little silt(SM); gray green; medium dense; wet		-6.4	
34									
35									
36	S-7	.83 2.0	4 9 11 14			SAND-fine, trace silt(SM); gray; medium dense; wet			
37		42%							
38	R-N					SAND-fine, little to some silt(SM); gray; dense; wet			
39									
40									
41	S-8	.83 2.0	7 9 14 17			SAND-fine, little to some silt(SM); gray; dense; wet			
42		42%							
43	R-N					SAND-fine, little to some silt(SM); gray; dense; wet			
44									
45									
46	S-9	1.25 2.0	11 12 21 27			SAND-fine, little to some silt(SM); gray; dense; wet			
47		63%							
48	R-N					SAND-fine, little to some silt(SM); gray; dense; wet			
49									
50									

33.0'

Match to Sheet 4

PROJECT: Site 9, Fire Training Area, R/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW7D

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample						PID = Photoionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
						Continued from Sheet 3		
51	S-10	1.5 2.0	22 50			SILT, some clay, little sand-fine; green gray; very dense; wet		-24.4
52		75%						51.0'
53	R-N							
54								55.0'
55								
56	S-11	.5 2.0	20 31 32 35			SAND-fine and SILT(SM); green gray; very dense; wet		
57		25%						60.0'
58	R-N							
59								64.5'
60								
61	S-12	1.3 2.0	10 16 17 32			SAND-fine, little silt, trace clay(SM); green gray; dense; wet		
62		67%						64.5'
63	R-N							
64								64.5'
65								
66	S-13	.66 2.0	31 50 3"			SAND-fine, little silt, trace shell fragments(SM); green gray; very dense; wet, split spoon refusal		
67		33%						64.5'
68	R-N							
69								64.5'
70								

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Brian VanDoren

BAKER REP.: Kenneth A. Tua

BORING NO.: 9GW7D

SHEET 4 OF

PROJECT Site 9, Fire Training Area, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW7D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevati
						Continued from Sheet 4			
71	S-14	1.67 2.0 83%	32 39 39 50			SAND -fine, some silt, little shell fragments(SM); green gray; very dense; wet			
72									
73	N-R					SAND -fine, little silt, little shell fragments; green gray; very dense; wet; split spoon refusal			
74									
75									
76	S-15	1.5 2.0 75%	35 42 50 5"			SAND -fine, little silt, little shell fragments(SM); green gray; very dense; wet; split spoon refusal			
77									
78	N-R					SAND -fine, little silt, little shell fragments(SM); green gray; very dense; wet; split spoon refusal			
79									
80									
81	S-16	.25 2.0 12%	50 5"			SAND -fine, some silt, little shell fragments; green gray; very dense; wet; split spoon refusal			
82									
83	N-R					SAND -fine, some silt, little shell fragments; green gray; very dense; wet; split spoon refusal			
84									
85									
86	S-17	1.25 2.0 63%	36 50 4"			SAND -fine, some silt, little shell fragments; green gray; very dense; wet; split spoon refusal			
87									
88	N-R					SAND -fine, some silt, little shell fragments; green gray; very dense; wet; split spoon refusal			
89									
90									

Match to Sheet 6

PROJECT: Site 9, Fire Training Area, RI/FS, Camp Lejeune

S.O. NO.: 19133

BORING NO.: 9GW7D

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevatic	
91	S-18	1.83 2.0	50 3"			SAND-fine, some silt, trace shell fragments(SM); green gray; very dense; wet, split spoon refusal			
92		92%							
93	R-N						Top of Bentonite at 93'		
94									
95						SAND-fine, some silt, trace shell fragments(SM); green gray; very dense; wet, split spoon refusal			
96	S-19	1.67 2.0	100 6"					-69.4	
97		83%				6" LIMESTONE FRAGMENTS & SHELL FRAGMENTS, some sand-fine		-69.9	
98	S-20	.75 2.0	50 4"			LIMESTONE FRAGMENTS, some shell fragments and sand-fine; gray; very dense; wet, split spoon refusal			
99		38%					Top of Sand Pack at 98.5'		
100	R-N						Top of Screen at 100'		
101						LIMESTONE FRAGMENTS, some clay, trace shell fragments; gray; dense; wet			
102									
103	S-21	2.0 2.0	17 24 23 25						
104		100%							
105	R-N								
106									
107								-80.4	
108	S-22	1.25 2.0	19 23 26 50/3"			SAND-fine, some silt, trace shell fragments(SM); gray; dense; wet; split spoon refusal			
109		63%					Bottom of Screen 109'		
110	R-N					End of Boring at 110.0'	End of Boring and Well at 110'	-83.4	